

INSTITUTE OF PROJECT MANAGEMENT PROFESSIONALS

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**PROFESSIONAL COMPETENCY-BASED LINE FOR
PROJECT MANAGEMENT PROFESSIONALS**

Training Project Management Practitioners

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INSTITUTE OF PROJECT MANAGEMENT PROFESSIONALS

Sustainable Development Goals (SDG) 2030 is aimed at ending poverty, protecting the planet, and ensuring prosperity for all. The practice of project management is becoming critical to the success of many development, government, and nonprofit organizations (NGOs). With reduced budgets and increased demands from donors and other stakeholders, organizations need to incorporate the tools and practices of modern project management in order to achieve the expected results. Embracing and integrating formalized project management within an organization involves more than merely completing a training program.

Public and non-profit organizations are requiring certified project managers as projects grow in complexity and donors demand transparency, accountability and efficiency. Project management skills are applicable to a growing range of development areas including: Education, Water and sanitation, Health, Agriculture and natural resources, Environmental, Fundraising, Nutrition, Advocacy, Emergency and Economic development. To be successful, organizations need to support project management from the top down and create a flexible framework consisting of practices, competencies, and techniques scaled to their specific project demands.

In view of this, the Institute of Project Management Professionals was established with the commitment of providing resources, developing knowledge and expertise to support development of Ghana in her efforts to achieve these ambitious goals by training and certifying project managers and practitioners in Ghana.

The Institute of Project Management Professionals (IPMP) is a Licensing and Regulatory Professional Body in Ghana, incorporated under the Companies Code, 1963 (Act 179), and duly registered as a Professional Body in accordance with the provisions of the Professional Bodies Registration Decree, 1973 (National Revolution Council Decree 143) as Chartered Project Management Institute (CPMI) to train professionals in project management with Professional Bodies Registration No. PB 68.

The institute is approved by the Ministry of Education through the Ghana Education Service (GES), a registered TVET Center for the Council for Technical and Vocational Education & Training (COTVET-Ghana), affiliate to the National Board of Professional & Technical Examination (NABPTEx-Ghana), and the American Academy of Project Management (AAPM-USA) for mentoring of its Professional Membership Examination. The institute is an accrediting member of the Global Alliance of Project Management Profession, (GAPPS-Australia), and the Association of Professional Bodies Ghana.

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FORWARD

The demand for project management professionals is increasingly vital to many areas of business today as a result of organizations embarking on complex projects with the view to creating unique products and services. Projects specification, scope statement and profiling require expert knowledge in cost, time and quality management. In Ghana, many government projects are not completed on the scheduled project time. This is because of delays which characterize projects in many places, including Ghana. For example, in the construction industry shortcomings like poor understanding of the project, lack of modern equipment, incompetent contractors, inadequate supervision, etc. result in delayed completion of projects, cost overruns and compromised quality.

Due to its several circumstances, including political stability, relatively good governance and fast economic growth trajectory, Ghana is host to several and major development projects and landmark reforms. There is a plethora of on-going and competed projects which provide sufficient evidence of the characteristics that affect the fate of projects.

Many government projects suffer the peril of non-completion. This situation is much pronounced in government roads and bridges projects, hydropower projects, thermal power projects, housing projects and directly affects the lives of the people and the government's development agenda.

The profession of project management is changing rapidly. Organizations have evolved their ability to define and implement new areas of work, with more integration of project management principles and more focus on the long-term benefits. Project management, then, is established as the preeminent method for making change in organizations and businesses and project, programme and portfolio managers are leading the way. The professionals of tomorrow will work in distributed environments with overlapping and often conflicting stakeholder interests, challenged with too much information and not enough communication and judged by their ability to deliver products or services that align with short and long term strategies, to deliver benefits. It is into these increasingly demanding challenges that the IPMP Professional Competence Baseline (PCB) is introduced.

*In order to avoid the menace of projects' non-completion, the root causes should be identified, which should help practitioners to adopt mitigating measures. According to **Martin J. Williams (2016)**, "Using an original database of over 14,000 small development projects in Ghana, I estimate that approximately one-third of projects that start are never completed, consuming nearly one-fifth of all local government capital spending".*

The profession of project management has become a global one. Organisations frequently engage in projects, programmes and portfolios that cross organisational, regional and national borders. The modern manager must work with a wide range of partners outside of his/her organisation and with a broad array of factors including industry, culture, language, socio-economic status and organisation types. Project management has to be applied taking these contextual facets into consideration. Often these broader contexts are seen as the most critical success factors. The IPMP PCB emphasizes these challenges.

It will take IPMP three years to train project, portfolio and programme management professionals in Ghana on the institute's PCB to equip them with competency-based standards of practice in managing project, portfolio and programmes. With the IPMP PCB, a new standard is available.



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1.0 Professional Competence Baseline (PCB)

1.1 Introduction

The IPMP Professional Competence Baseline (PCB) is the Ghana standard for individual competence in project management, programme management and portfolio management. The PCB supports the development of individual competence through the presentation of a complete inventory of competence elements across projects, programmes and portfolios.

IPMP's goals with Professional Competence Baseline (PCB) are simple: to enrich and improve the individual's competence in project, portfolio and programme management, and to provide an inventory of competences that, if fully realized, represent complete mastery of these management domains. Projects, programmes and portfolios are at the forefront of change in the world today.

Projects drive the development of new products and services, investments and expansion, capabilities, the implementation of new strategies and a new generation of infrastructure. We recognize that projects begin and end with people, and that competent execution is at the heart of every successful project. The burden has never been higher for project, programme and portfolio managers to produce measurable results on time, on budget, within scope and while meeting the quality criteria.

The IPMP Professional Competence Baseline (PCB) competence standard is intended to support the growth of Project Management Professional's, individuals, and also of organisations as they grapple with increasingly competitive project environments in Ghana. The IPMP Professional Competence Baseline (PCB) describes a comprehensive inventory of competences an individual needs to have or to develop to successfully master the work package, project, the programme or the portfolio the individual is tasked to manage.

However, the Professional Competence Baseline (PCB) is not a 'how-to' guide or a cookbook for managing projects, programmes or portfolios. Therefore, it does not describe the processes or steps involved in project, programme or portfolio management. It stands beside of any other global standards focus more on the processes. To everyone who uses the PCB, we wish you a successful journey.

2.0 Purposes & Intended Users

2.1 Definition of Competence

Competence is the ability of an individual to do a job properly. A competency is a set of defined behaviors that provide a structured guide enabling the identification, evaluation and development of the behaviors in individual employees. The term "competence" first appeared in an article authored by R.W. White in 1959 as a concept for performance motivation. In 1970, Craig C. Lundberg defined the concept in "Planning the Executive Development Program". The term gained traction when in 1973, David McClelland wrote a seminal paper entitled, "Testing for Competence Rather Than for Intelligence". It has since been popularized by Richard Boyatzis and many others, such as T.F. Gilbert (1978) who used the concept in relationship to performance improvement. Its use varies widely, which leads to considerable misunderstanding.

Some scholars see "competence" as a combination of practical and theoretical knowledge, cognitive skills, behavior and values used to improve performance; or as the state or quality of being adequately or well qualified, having the ability to perform a specific role. For instance, management competency might include systems thinking and emotional intelligence, and skills in influence and negotiation. Competency is also used as a more general description of the requirements of human beings in organizations and communities.

Competency is sometimes thought of as being shown in action in a situation and context that might be different the next time a person has to act. In emergencies, competent people may react to a situation following behaviors they have previously found to succeed. To be competent a person would need to be able to interpret the situation in the context and to have a repertoire of possible actions to take and have trained in the possible actions in the repertoire, if this is relevant. Regardless of training, competency would grow through experience and the extent of an individual to learn and adapt. However, research has found that it is not easy to assess competencies and competence development

There are many definitions of the term 'competence' around the world. The FCBTL-ICB presents a plain - English definition that is widely accepted by professionals and is intended to be recognizable and readily understood. This definition is not intended to minimize or supersede any other definition, but rather to provide guidance to the individual seeking improvement. Individual competence is the application of knowledge, skills and abilities in order to achieve the desired results.

- **Knowledge** is the collection of information and experience that an individual possesses. For example, understanding the concept of a Gantt chart might be considered knowledge.
- **Skills** are specific technical capabilities that enable an individual to perform a task. For example, being able to build a Gantt chart might be considered a skill.
- **Ability** is the effective delivery of knowledge and skills in a given context. For example, being able to devise and successfully manage a project schedule might be considered ability.

These three terms are related in that having a skill presupposes some relevant knowledge, and having ability presupposes relevant skills and knowledge, but adds to that the use of these in practice, in the right manner and at the right time.

2.1.1 Overview of Competence

Competency has different meanings, and remains one of the most diffuse terms in the management development sector, and the organizational and occupational literature. Competencies are also what

people need to be successful in their jobs. Job competencies are not the same as job task. Competencies include all the related knowledge, skills, abilities, and attributes that form a person's job. This set of context-specific qualities is correlated with superior job performance and can be used as a standard against which to measure job performance as well as to develop, recruit, and hire employees.

Competencies and competency models may be applicable to all employees in an organization or they may be position specific. Identifying employee competencies can contribute to improved organizational performance. They are most effective if they meet several critical standards, including linkage to, and leverage within an organization's human resource system. Core competencies differentiate an organization from its competition and create a company's competitive advantage in the marketplace. An organizational core competency is its strategic strength.

Competencies provide organizations with a way to define in behavioral terms what it is that people need to do to produce the results that the organization desires, in a way that is in keep with its culture. By having competencies defined in the organization, it allows employees to know what they need to be productive. When properly defined, competencies, allows organizations to evaluate the extent to which behaviors employees are demonstrating and where they may be lacking. For competencies where employees are lacking, they can learn.

This will allow organizations to know potentially what resources they may need to help the employee develop and learn those competencies. Competencies can distinguish and differentiate your organization from your competitors. While two organizations may be alike in financial results, the way in which the results were achieved could be different based on the competencies that fit their particular strategy and organizational culture. Lastly, competencies can provide a structured model that can be used to integrate management practices throughout the organization. Competencies that align their recruiting, performance management, training and development and reward practices to reinforce key behaviors that the organization values.

2.1.2 Dreyfus and Dreyfus on Competency Development

Dreyfus and Dreyfus introduced nomenclature for the levels of competence in competency development. The causative reasoning of such a language of levels of competency may be seen in their paper on Calculative Rationality titled, "From Socrates to Expert Systems: The Limits and Dangers of Calculative Rationality". The five levels proposed by Dreyfus and Dreyfus were:

- **Novice:** Rule-based behaviour, strongly limited and inflexible
- **Experienced Beginner:** Incorporates aspects of the situation
- **Practitioner:** Acting consciously from long-term goals and plans
- **Knowledgeable practitioner:** Sees the situation as a whole and acts from personal conviction
- **Expert:** Has an intuitive understanding of the situation and zooms in on the central aspects

The process of competency development is a lifelong series of doing and reflecting. As competencies apply to careers as well as jobs, lifelong competency development is linked with personal development as a management concept. And it requires a special environment, where the rules are necessary in order to introduce novices, but people at a more advanced level of competency will systematically break the rules if the situations requires it. This environment is synonymously described using terms such as learning organization, knowledge creation, self-organizing and empowerment.

Within a specific organization or professional community, professional competency is frequently valued. They are usually the same competencies that must be demonstrated in a job interview. But today there is another way of looking at it: that there are general areas of occupational competency required to retain a post, or earn a promotion. For all organizations and communities there is a set of primary tasks that competent people have to contribute to all the time. For a university student, for example, the primary tasks could be:

- Handling theory
- Handling methods
- Handling the information of the assignment

The four general areas of competency are:

1. **Meaning Competency:** The person assessed must be able to identify with the purpose of the organization or community and act from the preferred future in accordance with the values of the organization or community.
2. **Relation Competency:** The ability to create and nurture connections to the stakeholders of the primary tasks must be shown.
3. **Learning Competency:** The person assessed must be able to create and look for situations that make it possible to experiment with the set of solutions that make it possible to complete the primary tasks and reflect on the experience.
4. **Change Competency:** The person assessed must be able to act in new ways when it will promote the purpose of the organization or community and make the preferred future come to life.

2.1.3 McClelland and Occupational Competency

The Occupational Competency movement was initiated by David McClelland in the 1960s with a view to moving away from traditional attempts to describe competency in terms of knowledge, skills and attitudes and to focus instead on the specific self-image, values, traits, and motive dispositions (i.e. relatively enduring characteristics of people) that are found to consistently distinguish outstanding from typical performance in a given job or role. It should be noted that different competencies predict outstanding performance in different roles, and that there is a limited number of competencies that predict outstanding performance in any given job or role. Thus, a trait that is a "competency" for one job might not predict outstanding performance in a different role. There is hence research on competencies needed in specific jobs or contexts. Nevertheless, as can be seen from Raven and Stephenson, there have been important developments in research relating to the nature, development, and assessment of high-level competencies in homes, schools, and workplaces.

2.1.4 Benefits of Competencies

Competency models can help organizations align their initiatives to their overall business strategy. By aligning competencies to business strategies, organizations can better recruit and select employees for their organizations. Competencies have become a precise way for employers to distinguish superior from average or below average performance. The reason for this is because competencies extend beyond measuring baseline characteristics and or skills used to define and assess job

performance. In addition to recruitment and selection, a well sound Competency Model will help with performance management, succession planning and career development.

Selection: The use of behavioral interviewing and testing where appropriate, to screen job candidates based on whether they possess the key necessary job competency profile:

- Provides a complete picture of the job requirements
- Increases the likelihood of selecting and interviewing only individuals who are likely to succeed on the job
- Minimizes the investment (both time and money) in people who may not meet the company's expectations
- Enables a more systematic and valid interview and selection process
- Helps distinguish between competencies that are trainable after hiring and those are more difficult to develop

Training and Development: Development of individual learning plans for individual or groups of employees based on the measurable "gaps" between job competencies or competency proficiency levels required for their jobs and the competency portfolio processed by the incumbent.

- Focuses training and development plans to address missing competencies or raise level of proficiency
- Enables people to focus on the skills, knowledge and characteristics that have the most impact on job effectiveness
- Ensures that training and development opportunities are aligned with organizational needs
- Makes the most effective use of training and development time and dollars
- Provides a competency framework for ongoing coaching and feedback, both development and remedial

Performance Management: Provides regular measurement of targeted behaviors and performance outcomes linked to job competency profile critical factors.

- Provides a shared understanding of what will be monitored, measured, and rewarded
- Focuses and facilitates the performance appraisal discussion appropriately on performance and development
- Provides focus for gaining information about a person's behavior on the job
- Facilitates effectiveness goal-setting around required development efforts and performance outcomes

Career Paths: Development of stepping stones necessary for promotion and long term career-growth

- Clarifies the skills, knowledge, and characteristics required for the job or role in question and for the follow-on jobs
- Identifies necessary levels of proficiency for follow-on jobs
- Allows for the identification of clear, valid, legally defensible and achievable benchmarks for employees to progress upward
- Takes the guesswork out of career progression discussions

Succession Planning: Careful, methodical preparation focused on retaining and growing the competency portfolios critical for the organization to survive and prosper

- Provides a method to assess candidates' readiness for the role

- Focuses training and development plans to address missing competencies or gaps in competency proficiency levels
- Allows an organization to measure its “bench strength” the number of high-potential performers and what they need to acquire to step up to the next level
- Provides a competency framework for the transfer of critical knowledge, skills, and experience prior to succession and for preparing candidates for this transfer via training, coaching and mentoring
- Informs curriculum development for leadership development programs, a necessary component for management succession planning

2.2. Types of Competencies

Organizational Competencies: The mission, vision, values, culture and core competencies of the organization that sets the tone and/or context in which the work of the organization is carried out (e.g. customer-driven, risk taking and cutting edge). How we treat the patient is part of the patient's treatment.

Core Competencies: Capabilities and/or technical expertise unique to an organization, i.e. core competencies differentiate an organization from its competition (e.g. the technologies, methodologies, strategies or processes of the organization that create competitive advantage in the marketplace). An organizational core competency is an organization's strategic strength.

Technical Competencies: Depending on the position, both technical and performance capabilities should be weighed carefully as employment decisions are made. For example, organizations that tend to hire or promote solely on the basis of technical skills, i.e. to the exclusion of other competencies, may experience an increase in performance-related issues (e.g. systems software designs versus relationship management skills)

Behavioral Competencies: Individual performance competencies are more specific than organizational competencies and capabilities. As such, it is important that they be defined in a measurable behavioral context in order to validate applicability and the degree of expertise (e.g. development of talent)

Functional Competencies: Functional competencies are job-specific competencies that drive proven high-performance, quality results for a given position. They are often technical or operational in nature (e.g., "backing up a database" is a functional competency).

Management Competencies: Management competencies identify the specific attributes and capabilities that illustrate an individual's management potential. Unlike leadership characteristics, management characteristics can be learned and developed with the proper training and resources. Competencies in this category should demonstrate pertinent behaviors for management to be effective. Examples:

- **Initiative and Creativity:** Plans work and carries out tasks without detailed instructions; makes constructive suggestions; prepares for problems or opportunities in advance; undertakes additional responsibilities; responds to situations as they arise with minimal supervision; creates novel solutions to problems; evaluates new technology as potential solutions to existing problems.

- **Judgment:** Makes sound decisions; bases decisions on fact rather than emotion; analyzes problems skillfully; uses logic to reach solutions.
- **Cooperation/Teamwork:** Works harmoniously with others to get a job done; responds positively to instructions and procedures; able to work well with staff, co-workers, peers and managers; shares critical information with everyone involved in a project; works effectively on projects that cross functional lines; helps to set a tone of cooperation within the work group and across groups; coordinates own work with others; seeks opinions; values working relationships; when appropriate facilitates discussion before decision-making process is complete.
- **Quality of Work:** Maintains high standards despite pressing deadlines; does work right the first time; corrects own errors; regularly produces accurate, thorough, professional work.
- **Reliability:** Personally responsible; completes work in a timely, consistent manner; works hours necessary to complete assigned work; is regularly present and punctual; arrives prepared for work; is committed to doing the best job possible; keeps commitments.
- **Commitment to Safety:** Understands, encourages and carries out the principles of integrated safety management; complies with or oversees the compliance with Laboratory safety policies and procedures; completes all required ES&H training; takes personal responsibility for safety.
- **Support of Diversity:** Treats all people with respect; values diverse perspectives; participates in diversity training opportunities; provides a supportive work environment for the multicultural workforce; applies the Lab's philosophy of equal employment opportunity; shows sensitivity to individual differences; treats others fairly without regard to race, sex, color, religion, or sexual orientation; recognizes differences as opportunities to learn and gain by working together; values and encourages unique skills and talents; seeks and considers diverse perspectives and ideas.
- **Job Knowledge/Technical Knowledge:** Demonstrates knowledge of techniques, skills, equipment, procedures and materials. Applies knowledge to identify issues and internal problems; works to develop additional technical knowledge and skills.
- **Quantity of Work:** Produces an appropriate quantity of work; does not get bogged down in unnecessary detail; able to manage multiple projects; able to determine project urgency in a meaningful and practical way; organizes and schedules people and tasks.
- **Communication:** Writes and speaks effectively, using conventions proper to the situation; states own opinions clearly and concisely; demonstrates openness and honesty; listens well during meetings and feedback sessions; explains reasoning behind own opinions; asks others for their opinions and feedback; asks questions to ensure understanding; exercises a professional approach with others using all appropriate tools of communication; uses consideration and tact when offering opinions.
- **Customer Service:** Listens and responds effectively to customer questions; resolves customer problems to the customer's satisfaction; respects all internal and external

customers; uses a team approach when dealing with customers; follows up to evaluate customer satisfaction; measures customer satisfaction effectively; commits to exceeding customer expectations.

- **Problem Solving:** Anticipates problems; sees how a problem and its solution will affect other units; gathers information before making decisions; weighs alternatives against objectives and arrives at reasonable decisions; adapts well to changing priorities, deadlines and directions; works to eliminate all processes which do not add value; is willing to take action, even under pressure, criticism or tight deadlines; takes informed risks; recognizes and accurately evaluates the signs of a problem; analyzes current procedures for possible improvements; notifies supervisor of problems in a timely manner.
- **Attention to Detail:** Is alert in a high-risk environment; follows detailed procedures and ensures accuracy in documentation and data; carefully monitors gauges, instruments or processes; concentrates on routine work details; organizes and maintains a system of records.
- **Flexibility:** Remains open-minded and changes opinions on the basis of new information; performs a wide variety of tasks and changes focus quickly as demands change; manages transitions from task to task effectively; adapts to varying customer needs.
- **Organization:** Able to manage multiple projects; able to determine project urgency in a practical way; uses goals to guide actions; creates detailed action plans; organizes and schedules people and tasks effectively.
- **Staff Development:** Works to improve the performance of oneself and others by pursuing opportunities for continuous learning/feedback; constructively helps and coaches others in their professional development; exhibits a “can-do” approach and inspires associates to excel; develops a team spirit.
- **Quality Control:** Establishes high standards and measures; is able to maintain high standards despite pressing deadlines; does work right the first time and inspects work for flaws; tests new methods thoroughly; considers excellence a fundamental priority.
- **Responsiveness to Requests for Service:** Responds to requests for service in a timely and thorough manner; does what is necessary to ensure customer satisfaction; prioritizes customer needs; follows up to evaluate customer satisfaction.
- **Innovation:** Able to challenge conventional practices; adapts established methods for new uses; pursues ongoing system improvement; creates novel solutions to problems; evaluates new technology as potential solutions to existing problems.

2.2.1 Building a Competency Model

Many Human Resource professionals are employing a competitive competency model to strengthen nearly every facet of talent management from recruiting and performance management, to training and

development, to succession planning and more. A job competency model is a comprehensive, behaviorally based job description that both potential and current employees and their managers can use to measure and manage performance and establish development plans. Often there is an accompanying visual representative competency profile as well (see, job profile template).

Creating a competency framework is critical for both employee and system success. An organization cannot produce and develop superior performers without first identifying what superior performance is. To do this, organizations develop behavioral interview questions, interview the best and worst performers, review the interview data (tracking and coding how frequently keywords and descriptions were repeated, selecting the SKAs that demonstrated best performance and named the competencies)

One of the most common pitfalls that organizations stumble upon is that when creating a competency model they focus too much on job descriptions instead the behaviors of an employee. Experts say that the steps required to create a competency model include:

1. Gathering information about job roles.
2. Interviewing subject matter experts to discover current critical competencies and how they envision their roles changing in the future.
3. Identifying high-performer behaviors.
4. Creating, reviewing (or vetting) and delivering the competency model.

Once the competency model has been created, the final step involves communicating how the organization plans to use the competency model to support initiatives such as recruiting, performance management, career development, succession planning as well as other HR business processes.

2.2.2 Outsourcing Competency Models

The most frequently mentioned “cons” mentioned by competency modeling experts regarding creating a competency model is time and expense. This is also a potential reason why some organizations either don’t have a competency model in place or don’t have a complete and comprehensive competency model in place. Building a competency model requires careful study of the job, group, and organization of industry. The process often involves researching performance and success, interviewing high performing incumbents, conducting focus groups and surveys.

When asked in a recent webcast hosted by the Society of Human Resource Management (SHRM), 67 percent of webcast attendees indicated that hastily written job descriptions may be the root cause of incomplete competencies. Defining and compiling competencies is a long process that may sometimes require more effort and time than most organizations are willing to allocate. Instead of creating a competency model themselves, organizations are enlisting the help of specialist/consultants to assess their organization and create a unique competency model specific to their organization. There are many ways that organizations can outsource these functions:

- **Competency Libraries:** Organizations that don’t have the time or resources to build to develop competencies can purchase comprehensive competency libraries online. These universal competencies are applicable to all organizations across functions. Organizations can then take these competencies and begin building a competency model.
- **Specialist/Consultants:** For organizations that find they want a specialist to help create a competency model, outsourcing the entire process is also possible. Through outsourcing, a specialist/consultant can work with your company to pinpoint the root causes of your workforce

challenges. By identifying these workforce challenges, customized action plans can then be created to meet the specific needs. Typically, these solutions are unique to every organization's culture and challenges.

2.2.3 What about experience?

Experience is the knowledge or mastery of an event or subject gained through involvement in or exposure to it. Terms in philosophy such as "empirical knowledge" or "a posteriori knowledge" are used to refer to knowledge based on experience. A person with considerable experience in a specific field can gain a reputation as an expert. The concept of experience generally refers to know-how or procedural knowledge, rather than propositional knowledge: on-the-job training rather than book-learning.

The interrogation of experience has a long term tradition in continental philosophy. Experience plays an important role in the philosophy of Soren Kierkegaard. The German term Erfahrung, often translated into English as "experience", has a slightly different implication, connoting the coherency of life's experiences.

Certain religious traditions (such as Buddhism, Surat Shabd Yoga, mysticism and Pentecostalism) and educational paradigms with, for example, the conditioning of military recruit-training (also known as "boot camps"), stress the experiential nature of human epistemology. This stands in contrast to alternatives: traditions of dogma, logic or reasoning. Participants in activities such as tourism, extreme sports and recreational drug-use also tend to stress the importance of experience.

Experience plays a significant, though indirect, role in competence. Without experience, competence can neither be demonstrated nor improved. Experience is a key success factor to the growth of the individual. To successfully perform assigned roles, individuals need to accumulate sufficient experience and thus complement the potential for their competences. Therefore, state-of-the-art certification and assessment systems do not assess knowledge only, but focus on competence together with experience gained. The ICB addresses - as a standard for competence - those factors that are directly correlated with competence.

2.2.4 Audiences and Uses

The ICB is intended to support a wide range of audiences across many uses. It was developed and written with these audiences in mind. The following table describes the audiences and possible uses of the ICB. This list (in alphabetical order) is by no means exhaustive.

Audience	Possible uses
Assessors, certification boards, IPMP member associations	<ul style="list-style-type: none"> ○ A baseline for assessment and certification ○ A new global standard to promote the member association and attract new members New assessment and educational offerings with project, programme and portfolio domains
Coaches, consultants	<ul style="list-style-type: none"> ○ Accessible, international standard to be applied to clients

	<ul style="list-style-type: none"> ○ Platform for the development of additional services and products
Corporations, governments, business, non-profits	<ul style="list-style-type: none"> ○ One standard for running projects worldwide ○ Business does not have to reinvent a set of competence standards ○ International basis for staff development ○ A path to competent project managers and project success ○ Updating the curriculum
Educators, trainers	<ul style="list-style-type: none"> ○ Guidelines for teaching project, programme and portfolio management ○ Opportunity for better training, tailored to more specific roles
	<ul style="list-style-type: none"> ○ Baseline for professional development ○ Basis on which to be assessed and certified ○ A common language for communities of practice
Practitioners	<ul style="list-style-type: none"> ○ Competence development for a team ○ Easily readable baseline ○ Self-assessments ○ New standard for research development
Researchers	<ul style="list-style-type: none"> ○ Basis for papers and conferences ○ Platform for team-based research

2.3 Professional Competence Development

A number of studies have examined practitioner engagement with formal Continuous Professional Development (CPD) mechanisms and highlighted differing levels of engagement vis-à-vis professional roles. However, the nature of this difference had not been explained. It highlights that professions and professionals demonstrate unique characteristics, that professional competence is complex and that individual professionals must engage with learning and development in order to develop and maintain professional competence.

The transformations that have occurred in the modern world due to technological innovation and new forms of work organization, with a progressively more unstable and flexible market, demand the implementation of models for the professional education and management of the workforce based on professional competences. In the project management sector, as a consequence of these changes,

project management practitioners must constantly update their practices due to a requirement of project and project change with a unique profile and the necessary professional competence to fulfill a determined function or task, so that they can adapt to the new work demands.

The construction of professional competence is linked both to professional education acquisition and to informal learning processes that occur at different times and places. Saul Meghnagi, a constructivist representative, has studied professional competence since the late 1980s and is a proponent of a research model conducted in the professional development field, where the term competence can be defined as the acquisition of appropriate skills for the execution of a task, or the ability to decide, using acquired skills and knowledge, to perform in a particular situation. It can also be described as an articulate and complex combination of skills and capabilities that result from a conceptual and functional synthesis of theoretical aspects, linked to disciplinary contents and current experience. In this context, the professional competence becomes an important ally for industries, and it is for this reason that they seek professionals with advanced knowledge and behavioral qualities who are able to resolve problems.

The movement towards the adoption of professional competences, started in the 1960s and already common in the United States and in Europe, arrives timidly in Brazil, having its beginnings in multinational companies in the 1980s. The first wave of competences was successfully set up as a systematized process in hiring selection by making it possible to verify an individual's ability to fit the profile of competences of a defined work position or function.

Currently, in a context in which demands have been rising related to productivity and quality of services and products, professional competence has been approached as the sum of the American and European lines of thought; in other words, ascribed to the results of a determined function or task and to the characteristics of the person's profile, which can help ease the development of professional competences for the organization.

Professional competence is affected by the organization's environment, and it shows a level of sophistication that is dependent on objective reality and the subjective ability to analyze and influence the environment, with the possibility of developing itself in various ways and in different locations which are not necessarily the ones designated for its formation.

In the project management field, professional competences is defined as a fundamental aspects for the formation of pedagogical projects and curricular design of projects management courses, guiding the formation of professionals. From this perspective, instruction based on professional competences is indicated as one of the strategies for the transformations that have been occurring in the working world, especially in development project management.

In this sense, the theme of professional competence has been the focus of many project management professionals and practitioners, as well as of their organization, because human resources lies a possible solution to the greatest questions of development.

2.3.1 Overview

The development of professional competences is both an individual journey and a societal need. IPMP recognizes competence today as a function of the individual, the team and the organisation.

- Individual competences address the knowledge, skills, and abilities through experience

- Team competences address the collective performance of individuals joined toward a purpose.
- Organisational competences address the strategic capabilities of a self-sustaining unit of people

Motivation theory and current research results show that individuals strive to develop their competences in order to perform better in their current position, to get more and more interesting tasks, and to enhance their career opportunities. Project, programme or portfolio related work is based on collaboration with team members from all kinds of disciplines, internal and external parties (such as clients and suppliers), and therefore competence development happens in such settings collectively. Project experience adds to the competence of every individual and also to the teams and organizations as social systems.

Focus of the IPMP ICB is the individual. Therefore, this chapter elaborates on developing individual competences. But, there is no single way of developing competences. In fact, there are many approaches, which could interact with each other. The interactions between individual, collective and organizational competence development offer different approaches to the development of individual competences together with stakeholders, prerequisites and requirements. The IPMP ICB is neither a cookbook nor a textbook in the field of project, programme and portfolio management. It is a standard defining the competences needed by an individual acting in a certain domain and performing the desired result. The target readership and stakeholders shall better understand the competences needed and derive actions on how to acquire, assess and develop such competences.

2.3.2 Individual, Team, and Organisational Competence Development

Competence development is intermingled with the activities in the project, programme and portfolio itself, and of course its context. Teams are social systems as the embedding organisations are. Competence development happens when individuals perform activities according to their specific roles and thus acquire new knowledge, skills and abilities. They interact with others and could ask for respective knowledge, could exchange experiences and / or support each other in performing the activities in a project, programme or portfolio. A community of practice is one example for individuals interacting in a formal or an informal way and collectively developing their competences. The individual could use a community of practice to facilitate learning through discussing, experimenting and reflecting all kinds of practical issues. It is also a means to feed information back to the embedding organisation that could make use of the lessons learned in other projects.

Organisations could make use of communities of practice also on a corporate level and facilitate the development of individual competences through regular events. For example, a best practice in many organisations is to offer a project managers roundtable. Project managers come together on a regular basis, exchange experiences from finished or actual projects and collect lessons learned to be used in future projects. More information on organisational learning and competence development is provided in the IPMP OCB.

2.3.3. Approaches to the Development of Professional Competences

There are various approaches to the development of individual competences. Typically, it depends on the preferences of the individual or the organisation, the situation and the availability of resources, which one fits best and is chosen.

- **Self-development**, e.g. reading books, standards, case studies and articles helps to gain knowledge, reflecting on the application in practical situations and deriving learnings from that. Other ways of self-development are studying, experimenting, trying things out or learning by doing. The latter helps to gain experience in a certain context or to develop certain skills.
- **Peer-development**, e.g. reflecting with colleagues on how things are going, asking for a feedback on the own performance and ways to improve it. Learning partners from different disciplines could help to see a situation from a different angle and lever the development to the benefit of both peers, e.g. one through the questions asked and the other through the insights provided.
- **Education and Training**, e.g. attending a seminar, lectures, and training sessions, where the trainer delivers specific knowhow. This could be done through a presentation, interactions between the participants and the trainer as well as using case studies, group exercises, and simulation games. The development of individual competences may depend on the number of participants, the mix of methods used or the duration of the sessions.
- **Coaching and Mentoring**, e.g. getting feedback, advice and support by a coach, leader or mentor whilst performing certain activities or striving to develop specific competences. Typically, a coach, leader or mentor is an experienced person that does not deliver direct answers, but challenges the individual through questions that draw the attention to certain aspects and requires finding an adequate answer.
- **Simulation and Gaming**, e.g. developing competences through case-based simulation games (board or computer games), reflecting on interactions and behaviours of individuals shown in such a setting. Often simulation games and other forms of game-based learning are a mix of approaches, e.g. enabling self-development combined with peer-development and coaching in a training environment. It could also be helpful to combine these approaches based on the previous experiences, the stage of development an individual is in or the possibilities an organisation is having in its circumstances.

2.3.4. Competence Development Stakeholders

There are many stakeholders to consider for the development of individual competences, including but not limited to the following:

- **Teachers, educators and trainers:** Their role is primarily to start the development during the school, vocational and professional trainings as well as during graduate and postgraduate studies.
- **Top management, senior executives and heads of functional departments in organisations:** Their primary role is to set goals for the development, to provide necessary resources and to support the individuals during the development, e.g. showing a good example and giving guidance.
- **Human Resource (HR) Department:** The role of this department is to define standards, e.g. a competence model and competence profiles for project-related roles. The HR-Department

plans and controls all activities regarding the recruitment of individuals with an adequate profile. It organises the process of competence assessments and all development activities.

- **The PM Department or the PMO:** It defines the strategy and the goals for all PM-related development activities, supports the development through coaching, mentoring or training and enables the collective and organisational competence development through joint activities of all individuals involved in projects and programmes. External experts such as consultants and coaches could be involved to make the most out of existing experiences.
- **Standard Setting Bodies, Accreditation Centers and Certification Bodies:** they set standards for the individual competences, the way in which competences are assessed against the standards, how trainers, coaches and assessors shall operate, and which competences they require in order to act in a professional manner.
- **Assessors:** They assess individuals based on a standard, identifying the strengths, the gaps to a defined threshold and ways to develop the individual competences within defined rules.

2.3.5. Prerequisites for Effective Professional Competence Development

Before starting with the competence development, several prerequisites should be considered and if possible fulfilled. Firstly, the actual situation and the target state of the individual competence should be known and communicated to all stakeholders. Secondly, there should be access to expertise (e.g. know-how, experts) and sufficient resources (e.g. budget, time). It is important to create a culture, in which the development of competences is perceived to have added value and moved an organisation forward. This could be proclaimed through a corporate culture, backed by the example respective leaders demonstrate, and the atmosphere in which the development activities take place.

Top management, together with the HR and PM department or PMO should define their vision and goals for the development of individual competences. They define the standards, processes and structures for the development of individual competences, including, but not limited to, the assessment of the competences including, but not limited to, the assessment of the competences, the analysis of potential gaps to defined roles or profiles, the ways all development activities are defined, agreed on between the stakeholders, planned, conducted, documented, monitored and controlled. Evaluations of all development activities should ensure effectiveness, efficiency and a continuous improvement. Individuals developing their competences on their own or in a peer set-ting should follow a similar path to fulfil the above-mentioned requirements.

The IPMP competence baseline is a comprehensive inventory of competences an individual needs to have or to develop to successfully realise projects, programmes or portfolios. The generic model is applicable in all sectors and industries although the weight of the various competences differs between types of projects (e.g. IT, production, research and development) and industries (e.g. construction, business services and government). Nevertheless, in every project, all competences are relevant. The IPMP competence baseline shall be a faithful companion on the journey of lifelong individual progression, from self- or external assessing the actual competence level, through the definition of desired development steps to evaluation of achievements. All the way with you.

3.0 Professional Competence Baseline

3.1 Framework of the Professional Competency Baseline (PCB)

Professional Competence Baseline attempts to codify the many faces of competence. It was built around several key concepts, including:

- **Domains.** PCB does not discuss competences in terms of specific roles (e.g. project manager), but rather in terms of domain (e.g. individuals working in project management). The rationale is that roles and role titles vary greatly by language, industry and focus. Therefore, PCB presents competences important for project management, programme management, and portfolio management. Each of these domains may contain roles and titles that fit into the overall competence domain.
- **Competence areas.** PCB contains three areas of competence that form the so called Eye of Competence. These areas apply equally to all three domains (project, programme and portfolio management).
- **The three competence areas are as follows:**
 - **People Competences:** these consist of the personal and interpersonal competences required to successfully participate in or lead a project, programme or portfolio
 - **Practice Competences:** these are the specific methods, tools and techniques used in projects, programmes or portfolios to realise their success
 - **Perspective Competences:** under this heading come the methods, tools and techniques through which individuals interact with the environment, as well as the rationale that leads people, organisations and societies to start and support projects, programmes and portfolios
- **Key Competence Indicators (KCIs) and Measures.** Within each competence area there are generic competence elements (CEs) that apply to all domains. Competence Elements contain lists of the pieces of knowledge and skills required to master the competence elements. Key Competence Indicators (KCIs) provide the definitive indicators of successful project, programme and portfolio management for one, two, or all three domains. Measures exist that describe highly detailed performance points within each KCI.
- **Project, Programme, Portfolio.**
 - **A project** is temporary in that it has a defined beginning and end in time, and therefore defined scope and resources. Project is unique in that it is not a routine operation, but a specific set of operations designed to accomplish a singular goal. Therefore a project team often includes people who don't usually work together, sometimes from different organizations and across multiple geographies. The development of software for an improved business process, the construction of a building or bridge, the relief effort after a natural disaster, the expansion of sales into a new geographic market are all projects and all must be expertly managed to deliver on-time, on-budget results, learning and integration that organizations need. Project management, then, is the application of knowledge, skills, tools, and techniques to project activities to meet the project

requirements. It has always been practiced informally, but began to emerge as a distinct profession in the mid-20th century. Project Management Practitioners identifies its recurring elements:

- *Project management processes fall into five groups: Initiating, Planning, Executing, Monitoring and Controlling and Closing*
- *Project management knowledge draws on ten areas: Integration, Scope, Time/Schedule, Cost/Budget, Quality, Procurement, Human resources, Communications, Risk management and Stakeholder management*

All management is concerned with these, of course. But project management brings a unique focus shaped by the goals, resources and schedule of each project. The value of that focus is proved by the rapid, worldwide growth of project management:

- as a recognized and strategic organizational competence
 - as a subject for training and education
 - as a career path
- A **programme** usually starts with a vision of a changed organisation and the benefits that will accrue from the change. Delivering the changed organisation will involve coordinating a number of projects and ensuring that their outputs are used to deliver benefits. This will require change management of business-as-usual activities. Typically, the desired benefits are initially identified within a business case that justifies the necessary investment. A detailed specification of the end state of the programme is called a blueprint. However, the scale of programmes and the impact of a dynamic business environment mean that intermittent or regular redefinition may be required. The core programme management processes are:
 - **Project Coordination:** identifying, initiating, accelerating, decelerating, redefining and terminating projects within the programme. Managing interdependencies between projects, and between projects and business-as-usual activities;
 - **Transformation:** taking project outputs and managing change within business-as-usual so that outputs deliver outcomes;
 - **Benefits Management:** defining, quantifying, measuring and monitoring benefits;
 - **Stakeholder Management and Communications:** ensuring that relationships are developed and maintained, thus enabling productive, two-way communication with all key stakeholders.

Responsibility for these components lies with three key roles: a programme sponsor, a programme manager and business change managers.

- The **sponsor** is accountable for achievement of the business case and providing senior-level commitment to the programme.

- The **programme manager** is responsible for day-to-day management of the programme including the coordination of projects and change management activities.
- **Business change managers** are responsible for successful transition and benefits realisation.

Programme management is the coordinated management of projects and change management activities to achieve beneficial change. A programme management methodology can be used to provide the complete governance structure for management of a programme. Such methodologies typically provide:

- Process models based around a programme life cycle;
- An organisation structure with defined roles and responsibilities;
- Templates for documentation;
- Guidelines for adapting the methodology to different situations.

The benefits of using a methodology for programmes are the same as for projects. Ideally, the projects within the programme will all use a common (but flexible) methodology that is consistent with the programme's methodology. Many organisations either tailor open methodologies, such as Managing Successful Programmes (MSP), or develop their own bespoke approaches.

Corporate programmes tend to be complex, lengthy and initially ambiguous as to the eventual outcomes. Instability within an organisation's environment (e.g. market changes) can often affect the outcomes envisaged for the end of a programme. In order to balance the cumulative impact of changes, a programme should be divided into tranches. The programme can then be reviewed at the end of each tranche. Ideally, each tranche should deliver a self-sustainable amount of beneficial change in its own right.

- **A portfolio** is set of project proposals, projects, programs, sub-portfolios and operations managed together to achieve an organisation's strategic objectives. Important issues on a portfolio level are reported to the senior management of the organisation by the portfolio manager, together with options to resolve the issues. Project Portfolio Management (PPM) is the centralized management of the processes, methods, and technologies used by project managers and project management offices (PMOs) to analyze and collectively manage current or proposed projects based on numerous key characteristics. The objectives of PPM are to determine the optimal resource mix for delivery and to schedule activities to best achieve an organization's operational and financial goals, while honouring constraints imposed by customers, strategic objectives, or external real-world factors. The International standard defines the framework of the Project Portfolio Management.

3.2 Professional Core Competencies for a Successful Project Management Professionals or Practitioners

A project may be well conceived and adequately financed, the resources may be specialists, and consultants may be highly experienced, but if the efforts of all the participants are not skillfully coordinated and managed, the project may overrun the budget, fail to meet the schedule, or fall short in functional and technical quality. The larger and more complex the project, the more critical this overall management function becomes.

In the construction industry it would be unthinkable to conduct a construction project without a project management professionals or practitioners. Some businesses, however, still see a project management professionals or practitioners as overhead rather than integral to success. During economic downturns many project managers are laid off due to cancellation of projects.

However, another major reason for project management professionals or practitioners layoffs is not recognizing the added value of a project management professionals or practitioners. There is not one agreed-upon definition of “project management professionals or practitioners” nor his/her responsibilities: scope of duties range anywhere from administrator to multimillion-budget manager. In addition, a lot of companies have defined project management professionals or practitioner’s selection criteria vaguely and often focus more on fit into the organization than competency for the position.

Project management professionals or practitioners, in general, have no formal authority, though they are held responsible for the overall success of the project. They are responsible for managing the interaction between all stakeholder groups, each of whom their own expectations and project success criteria have. The project management professionals or practitioners is often well served by putting their egos aside and keeping a necessary emotional distance from their work. Summarized, the position of project manager demands an overall defined skill set and personality profile.

3.2.1 Criteria of a Competent Project Management Professionals or Practitioners

Institute of Project Management Professionals identified three project management competency areas: knowledge, proven experience and personality. Each competency area is built around specific “pillars”.

- The **Knowledge Area** has three pillars. The first pillar contains general management skills such as leadership, negotiation, communication, team building and other human resource management skills that are necessary in any management position. The second pillar contains knowledge of the generally accepted project management areas including the tools used in those areas, such as project scope management, project time management, and project cost management. The last pillar contains industry specific management knowledge, such as lifecycle management and product development methodologies.
- The **Proven Experience Competency Area** includes track record, hours of project management exposure, size and complexity of project managed and independent references. Years of experience do not necessary always give a good competency rating.
- The **Personality Area**, arguably the most important one, has two pillars. The first pillar contains personality characteristics such as can-do attitude, confidence, enthusiasm, open mindedness, adaptability, and personal integrity. The second pillar contains people management skills such as ability to communicate, ability of motivation, ability to influence

and political sensitivity. The political sensitivity attribute is very important for project managers. Projects are multidimensional and are inherently affected by politics. The key is to be aware of politics, to work with them, but not be part of them.

A competent leader continually balances five project “currencies” - time, money, knowledge, security, and prestige. For a project to be perceived as successful, all stakeholders have to feel that they received a positive exchange at the end of the project. Most people can readily grasp the exchange rates for time, money, and knowledge. Security and prestige are, however, based on individual perception and are harder to quantify. A prime example is the functional manager who appears to ignore clear gains in both time and money as he/she opposes a project. This individual is perhaps seeing a loss of security or prestige greater than the value of time and money. A competent project manager understands this perception of loss and often can present a stakeholder with a gain in either (or both) areas, and win their support for the project. The final component of people management, often harder to manage, is when people feel threatened by the skill set of a good and successful project manager.

3.2.2 Using a Checklist to Pick a Project Management Professionals or Practitioners

When assigning a project management professionals or practitioners it is important to look for a combination of skills and knowledge in all three competency areas. A few things to keep in mind:

- Project management professionals or practitioners need to act on different levels. For example, a project management professionals or practitioners can gain influence and respect of stakeholders and management when they clearly demonstrate the linkage between the corporation's business goals and the project. On the other hand, they gain influence and respect of the team when they can identify with the team's goals and bring these goals into alignment with the corporation goals.
- Different organizational cultures require different emphasis within the three competency areas.

CORE COMPETENCY AREAS

KNOWLEDGE

General Management skills

- Leadership
 - Provide direction
 - Provide vision
 - Coach/mentor team members
 - Sound judgment
 - Issue & conflict resolution
 - Effective decision making

Project Management skills

- Fundamental project management skills
- Project management tools & techniques
- Organizational savvy

Industry skills

- Breadth (not depth) in specific application/industry knowledge
- Life cycle management

- Negotiation
- Communication
- Team building

PROVEN EXPERIENCE

- Strategic in approach: understands and addresses inter-dependencies and real issues
- Clear definition of requirements (tested by real customer requirements) and timetables
- Experience managing to deliverables and milestones: on time/within budget/meeting business needs
- Ability to manage troubled teams/projects and bring them to success
- Proven experience with projects of similar size and scope
- Organized and efficient in work processes

PERSONALITY

Characteristics

- Aptitude; flexibility and ability to adapt to change and cultural realities
- Confidence and commitment
- Pro-active, can-do attitude
- Open mindedness
- Common sense
- Trustworthy
- Creative

3.2.3 Checklist

The checklist below addresses the competencies and attributes companies need to pay attention to when selecting a project management professionals or practitioners for a project. The checklist is a guideline that can be used to evaluate current project management professionals or practitioners or to screen prospective project management professionals or practitioners for a new project and to ensure that the most skilled project management professionals or practitioners are assigned to the most critical projects. The checklist can be combined with behavioral interviewing. Additionally, project management candidates can also use this list to prepare for a job interview.

COMPETENCY	WHAT TO LOOK FOR	HOW TO CHECK/TEST
KNOWLEDGE	Test candidate's working knowledge of concepts, methodologies, practices and vocabulary of the profession. In addition to the case scenarios, always ask for actual past examples to verify real life experience.	

General management		
○ Leadership		
- sound judgment	Knowledge of business purpose of the project and ability to make decisions within that context.	Discuss a case scenario with candidate in which current triple constraints priorities (time, money, quality) are explained. If there is a problem with one of the constraints, what action would they take?
- provide vision	Ability to translate organization vision into a project vision.	Have candidate explain end vision of the project and why it is important to the company
- provide direction	Ability to keep project moving toward successful completion in face of aggressive schedules and discouraging developments.	Have candidate explain how they know where the project is, where it has been, and where it is going.
- coach/mentor team	Knowledge of team strengths and weaknesses and ability to effectively utilize team members to complement and support each other. Active feedback to team members and stakeholders.	Have candidate explain how they motivate their team and interact with key stakeholders
- issue & conflict resolution	Ability to recognize resistance and overcome it. Ability to control project issues while avoiding power confrontations. Thinking in opportunities instead of barriers.	Ask what issue resolution models and stress management techniques candidate uses and let them illustrate with real life examples.
- effective decision making	Ability to identify key issues & problems and pick the best choice among alternatives. Ability to make timely decisions and to take action reflective of business objectives.	Use a case scenario to identify if candidate uses a structured approach to address decisions, takes into account both facts and opinions, presents options to sponsor, escalates when appropriate, documents decisions made and follows up to ensure execution.
○ Communication	Ability to provide information regarding tasks, plans, schedule, strategies and org structure to stakeholders.	Ask for description of communication plans candidate uses. Does candidate tailor form and timing of communication to their audience? Do they confirm the accuracy of information sent and received? Do they ask follow-up questions? Do they clarify understanding before reacting?

○ Negotiation	Ability to negotiate win-win agreements.	Use case scenario to identify how candidate negotiates. Do they advocate interests rather than positions, seek win-win agreements, and use objective criteria to evaluate proposed agreements?
○ Team building	Ability to encourage and enable people to work together as a team to accomplish the project.	Ask for examples of team building activities used in the past. Does the candidate share management responsibilities with the team? Do they advertise team achievements?
Project management	Knowledge of fundamental project management processes, methodologies and tools & techniques and ability to adapt them to organization. Understanding of formal and informal organizational structures.	Project management certification gives an indication of the candidate's knowledge of concepts, methodologies and vocabulary. Use a sample project case scenario to have candidate show project management skills such as project planning, cost/benefit analysis, problem resolution, and risk management.
Industry management	High-level understanding of applications used in the organization's industry. Ability to adapt project management processes to organization's product life cycle.	Have candidate explain how they would adapt project management processes to your specific application area.
PROVEN EXPERIENCE	Candidate should show successful track record through specific examples describing how the success was achieved and how the stakeholders recognized it.	
	Ability to manage (troubled) teams/projects and bring them to success. Ability to manage interactions between the customer and the project team.	Ask for detailed examples of past experience. Contact references regarding specific examples based on the knowledge competencies listed above.
COMPETENCY	WHAT TO LOOK FOR	HOW TO CHECK/TEST
PERSONAL ATTITUDE	Test candidate behavior in a project environment through scenarios, role-play or management assessment.	
Characteristics	Ability to adapt and deal with situations and manage everyone's expectations through ongoing change. Ability to say "No". Ability to	Ask for examples of following through on commitments, including those made to colleagues. Use role-play to simulate under pressure situations. Pay attention to the conversation and

	stay calm under pressure. Ability to take responsibility for failures.	language used. Does candidate models good communication and mutual respect?
People management	Ability to earn trust and respect from project's stakeholders. Ability to influence decisions that need to be made to make the project successful.	Use case scenario to identify how candidate interacts with project stakeholders. Does candidate challenges project board and sponsor? Do they stay authentic, independent of whom they talk to? Do they manage expectations and promote trustworthiness through listening?

3.3 Structure of the Professional Competency Baseline (PCB)

Professional Competence in the project environment is broken down into 29 competence elements with one to many key competence indicators each.

- **Perspective competences** (5 elements)
- **People competences** (10 elements)
- **Practice competences** (14 elements)

While project and programme management are both temporary activities, portfolio management is an ongoing activity. The competence elements presented in professional competence baseline have been structured to align across projects, programmes and portfolios.

Perspective Competences

Every project, programme and portfolio is started, driven, supported and governed by external drivers. People, organisations and societies demand things, varying extraordinary. Somewhere along that line, realising what people want gets so complicated that a project or programme is considered. It is rare that any project or programme is executed in a vacuum they are influenced by their organisational, societal and political context. The drivers for every project or programme can be roughly divided into the formal and explicit goals and needs of the organisation and/or society, and more informal and implicit motives and interests. A clear example of a set of formal, explicit and present drivers of projects, programmes and portfolios is the strategy of an organisation.

- **The Strategy (Perspective 1)** generally has clear goals and objectives and, more often than not, projects and programmes contribute to these goals and objectives, while project and programme portfolios are prioritized according to these goals and objectives.
- **Organisational and external Governance, structures and processes (Perspective 2)** create the formal context of a project, programme or portfolio. The amount and interdependency of the project, programme or portfolio interfaces with this context defines an important part of the complexity. It may mean that a project, programme or portfolio has to deal with legacy processes or structures that served clear goals when they were established but are cumbersome to use in the present situation.

- **Compliance, standards and regulations (Perspective 3)** also contain relevant perspectives and drivers. They comprise the relevant laws, regulations, standards and tools that reflect priorities, best practices and demands of the organisation, industry, society and professional regulatory bodies.
- **The informal Power and interest (Perspective 4)** of people within an organisation can have a huge influence on the success of any project, programme and portfolio. This is the informal and implicit counterpart of the organisation's strategy. People are not just driven by the formal rules and objectives of an organisation; they also have personal goals and objectives.
- **The Culture and values (Perspective 5)** of an organisation (or society) are by definition for the most part informal and implicit. Of course, an organisation may try to influence the informal culture by formal and explicit mission statements and corporate values. Yet the majority of cultural values remain implicit and informal, although they influence all other perspective elements, admissible strategies, rules and regulations, etc. Understanding the mores, customs, conventions and practices of an organisation or society is therefore an essential requisite for the success of any project, programme or portfolio.

People Competences

This competence area describes the personal and social competences an individual working in the project, programme or portfolio needs to possess to be able to realize success. All personal competence starts with the ability to self-reflect. In the end, an individual's competence is proven by realizing the agreed tasks successfully, that is, to the satisfaction of the stakeholders. Between these extremes eight other competence elements are defined.

- Basic personal attributes are discussed in **Self-reflection and self-management (People 1)** and **Personal integrity and reliability (People 2)**.
- Communicating with others is described in **Personal communication (People 3)**, and building relations in **Relations and engagement (People 4)**.
- Projects, programmes and portfolios increasingly rely on **Leadership (People 5)**.
- And two specific aspects of leadership are also presented: **Teamwork (People 6)** and how to handle **Conflict and crisis (People 7)**.
- **Resourcefulness (People 8)** describes ways of thinking (conceptual and holistic) and sets of techniques (analytic and creative), but above all focuses on the ability to create an open and creative team environment, where each can work and contribute optimally.
- **Negotiation (People 9)** describes how to reach results that are both in the interest of the project, programme or portfolio and acceptable to other parties; and **Results orientation (People 10)** describes the ways an individual can stimulate and steer his team to realise optimal results.

Practice Competences

All contextual influences and demands come together when the organisation initiates a new project, programme or portfolio. The individual working in project, programme or portfolio management has to take into account all these influences and demands.

- The individual prioritises and translates these into a **project, programme or portfolio Design (Practice 1)**. The project, programme or portfolio design is a 'charcoal sketch' that defines the high-level choices for this project, programme or portfolio (e.g. make or buy, linear or iterative, possible funding or resourcing options, how to manage the project, programme or portfolio). In the other technical competence elements, each of these basic decisions will be specified, implemented and managed.
- **Goals, objectives, and benefits (Practice 2)** include the various demands and expectations regarding the outcomes and the objectives, and how these are prioritised. **Scope (Practice 3)** describes the specific boundaries of the project, programme or portfolio.
- **Time (Practice 4)** focuses on the order and planning of the delivery; **Organisation and information (Practice 5)** deals with the organisation of the project, programme or portfolio and its internal information and communication flows; and **Quality (Practice 6)** describes the demands and organisation of both process and product quality and its controls.
- Of course projects, programmes and portfolios are dependent on the input of people, material and money. These input constraints include money, **Finance (Practice 7)** and (human and other)
- **Resources (Practice 8)**. Often, acquiring resources requires **Procurement (Practice 9)**. Integration and control of all activities is described in the competence element **Plan and control (Practice 10)**. Apart from that, the individual has to identify, prioritise and mitigate the main **Risk and opportunity (Practice 11)** and to assess, and engage with, **Stakeholders (Practice 12)**.
- Another output is **Change and transformation (Practice 13)** – changes in the organisation necessary for, or part of, realising the benefits. And finally, the competence **Select and balance (Practice 14)** (only for programme and portfolio management) describes the selecting and balancing of components of programmes and portfolios.

4.0 Professionals & Practitioners Working in Project Management

The IPMP professional and practitioner's competence baseline is a comprehensive inventory of competences a professional and practitioners needs to have or to develop to successfully realize projects. The generic model is applicable in all sectors and industries. However, it does not recommend or include specific methodologies, methods or tools. Appropriate methods and tools may be defined by the organisation, and the professional or practitioners should choose from a wide range of available methodologies, methods and tools for a particular situation. Of course, the weight of the various competences needed to successfully realize projects differs between types of projects (e.g. IT, production, research and development) and industries (e.g. construction, business services and government). Nevertheless, in every project, all competences are relevant.

4.1 Managing Projects

Managing Projects is the practice of initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria at the specified time. A project is a temporary endeavor designed to produce a unique product, service or result with a defined beginning and end (usually time-constrained, and often constrained by funding or staffing) undertaken to meet unique goals and objectives, typically to bring about beneficial change or added value. The temporary nature of projects stands in contrast with business as usual (or operations), which are repetitive, permanent, or semi-permanent functional activities to produce products or services. In practice, the management of such distinct production approaches requires the development of distinct technical skills and management strategies.

The **Primary Challenge** of managing a project is to achieve all of the project goals within the given constraints. This information is usually described in project documentation, created at the beginning of the development process. The primary constraints are scope, time, quality and budget. The secondary and more ambitious challenge is to optimize the allocation of necessary inputs and apply them to meet pre-defined objectives.

The **Object** of managing projects is to produce a complete project which complies with the client's objectives. In many cases the object of project management is also to shape or reform the client's brief in order to feasibly be able to address the client's objectives. Once the client's objectives are clearly established they should influence all decisions made by other people involved in the project - for example project managers, designers, contractors and sub-contractors. Ill-defined or too tightly prescribed project management objectives are detrimental to decision making. Projects are a way to deliver value to an organisation. Although there may be other ways to deliver this value, projects often have certain advantages that make them apt for the specific task. These advantages include focus, control and specialisation.

Focus, as projects are a temporary organisation established for just one set of objectives: to deliver this value; control, as projects are subject to predefined constraints, including dead-lines, budgets, quality standards, and specialisation, as project management has become a profession, including best practices, tools, methods and certification schemes.

A project is defined as a unique, temporary, multi-disciplinary and organised endeavour to realise agreed deliverables within predefined requirements and constraints. Achievement of the project objective requires these deliverables to conform to specific requirements, including multiple constraints such as time, cost, resources and quality standards or requirements.

Managing projects is concerned with the application of methods, tools, techniques and competences to a project to achieve goals. It is performed through processes and includes the integration of the various phases of the project life cycle.

Effective project management has a number of benefits for the organisation and stakeholders. It provides a greater likelihood of achieving the goals and ensures efficient use of resources, satisfying the differing needs of the project's stakeholders.

4.2 Competences overview

The IPMP Professional Competence is applicable for the three management domains of project management, programme management and portfolio management. Based on the generic model every professional or practitioner has to have a specific set of competences to manage projects successfully. The professional or practitioner has to have perspective competences that address the contexts of projects, people competences that address personal and social topics and project competences that address the specific practice competences for managing projects.

4.3 Perspective

The professional competence area 'perspective' deals with the context of a project. It defines five competences:

1. Strategy
2. Governance, structure and processes
3. Compliance, standards and regulations
4. Power and interests
5. Culture and values

4.3.1 Strategy

Definition: The strategy competence describes how strategies are understood and transformed into manageable elements using projects. This competence is therefore defining a performance management system in which projects are seen and managed in light of their alignment with the strategy and the vision, and ensuring it is highly correlated with the mission and the sustainability of the organisation.

Purpose: The purpose of this competence element is to understand the strategy and the strategic processes, and thus enable a certain management perspective (project, programme or portfolio) to manage their project within the contextual aspects.

Description: This competence describes the formal justification of the project goals as well as the realisation of benefits for the organisation's long-term goals. This encompasses the discipline of strategic performance management in which an organisation breaks up its strategic goals into manageable elements in order to:

- Achieve beneficial changes in the organisational culture, business systems and processes
- Establish and pursue agreed strategic targets
- Allocate and rank resources
- Inform management of the need to change strategic objectives
- Stimulate continuous improvement.

Strategic plans encompass long-term visions and mid- or short-term strategies and should be aligned with the mission, quality policy and corporate values of organisations. The strategy competence also includes the process of understanding the organisational environment, developing the desired state of benefits and making the right selection of projects and/or programmes within a portfolio. Strategy alignment should therefore convey the organisation's vision and strategy into project goals or programme benefits.

Throughout the strategic alignment processes, professional or practitioner may apply different models for disseminating and managing the strategic goals, e.g. the balanced scorecard, performance matrix, environmental analyses, etc. Thus the professional or practitioner sets a performance management

system, usually run by critical performance variables, i.e. Critical Success Factors (CSFs) and Key Performance Indicators (KPIs). Hence, each project is controlled through a set of CSFs and KPIs to assure the sustainability of an organisation.

Knowledge

- Benefits realisation management
- Critical success factors
- Key performance indicators
- Organisational mission
- Organisational vision
- Difference between tactic and strategy
- Diagnostic and interactive control management systems
- Strategic performance management
- Benchmarking

Skills

- Analysis and synthesis
- Entrepreneurship
- Reflection of the organisation's goals
- Strategic thinking
- Sustainable thinking
- Contextual awareness
- Result orientation

Related competence elements

- All other perspective competence element
- People 5: Leadership
- People 9: Negotiation
- People 10: Results orientation
- Practice 1: Design
- Practice 2: Requirements and objectives
- Practice 11: Risk and opportunity
- Practice 12: Stakeholders

Key Competence Indicators

4.3.1.1 Align with organisational mission and vision

Description: The professional or practitioner knows, reflects and can translate the organisation's mission, vision and strategy into its project. The professional or practitioner always needs to ensure that the project goals are in sync with the mission, quality policy and values of an organisation. If the relation between the project's benefits and organisational purpose is vague, the professional or practitioner still needs to perform periodic checking of the benefits against the purpose written in formal strategic documents. The alignment is usually done by utilising diagnostic management control systems and formal tools, e.g. critical success factors, success criteria, key performance indicators, etc.

Measures

- Reflects the mission and vision of the organisation
- Aligns the project goals with the mission, vision and strategy by using diagnostic control management systems (top-down approach and pre-set goals)
- Controls whether the project's objectives and benefits are in sync with the mission, vision and strategy
- Develops and implements measures of strategic alignment (e.g. critical success factors, key performance indicators, etc.)
- Checks whether the project's organisation is delivering benefits to the organisation

4.3.2.2 Know and apply the principles of programme management and the way they are implemented

Description: If the project is part of a programme, the professional or practitioner has to align the project with the programme and has to know how the principles of programme management are implemented in the specific organisation. The dependencies between the project and the programme as well as between the different projects within the programme have to be analysed in terms of input, goals, outcomes, etc. Dealing with those dependencies means setting up and maintaining interfaces between the project and the programme

Measures

- Explains characteristics of a programme (goals, inputs, outputs, outcomes, benefits)
- Explains the concept of programme management

4.3.2.3 Know and apply the principles of portfolio management and the way they are implemented

Description: The professional or practitioner knows the way portfolio management is implemented in the specific permanent organisation. Therefore the professional or practitioner knows the portfolio criteria and required inputs and outputs, and identifies impacts of the project on the portfolio. The professional or practitioner is able to discover different constraints within the portfolio and can take these constraints into account to harmonise resource utilisation of his or her project. The professional or practitioner is able to filter and/or funnel the communication channels with the respective portfolio in order to positively influence the project performance. The professional or practitioner knows the vertical (for example, with the programme manager or programme steering committee) and horizontal (for example, with other professional or practitioner in the programme – other project teams) lines of communication as part of the overall coordination process with a programme or portfolio.

Measures

- Explains characteristics of a portfolio – critical success factors (CSFs) and Key Performance Indicators (KPIs)
- Knows the concept of managing a portfolio (organisational structures and processes)
- Successfully communicates within a respective portfolio in order to successfully manage a project

4.3.2.4 Align the project with project supporting function

Description: Project supporting functions (being a project office, a project management office or similar) provide multifaceted support to the project and / or the professional or practitioner managing the project

in relation to organisation, planning, reporting, meeting management, documentation, etc. To ensure the necessary support from the project supporting function, the professional or practitioner has to know relevant contact people within the project supporting function and how to establish and maintain good relations with them.

Measures

- Knows people, processes and services of supporting functions
- Uses the project supporting function of the parent organisation for efficient support of the project
- Establishes and maintains relations with the project supporting function
- Applies the reporting standards of the parent organisation to the project, using specific tools and methods

4.3.2.5 Align the project with the organisation's decision making and reporting structures and quality requirements

Description: The success of a project is very much dependent on the right decisions made at the right level of the organisation at the right time. Every decision should be prepared, presented, accepted, recorded, communicated, and finally implemented. Formal and informal routines and special rules for decision making beyond the professional or practitioner' competence and responsibility exist in each organisation. Therefore, the professional or practitioner requires knowledge of the decision making structure and processes, and the ability to structure and manage the project accordingly. Periodic reporting of the actual status is essential for trust by its stakeholders, and to assure traceability of the progress. Different project stakeholders have different reporting needs (information requirements, method of delivery, reporting frequency) which the professional or practitioner has to take into account. The parent organisation will have different forms of quality assurance which relate to projects (system assurance, project assurance, finance assurance, technical assurance, security assurance, etc.). For the professional or practitioner it is important to take these into account in devising a quality assurance plan for his or her project, to decide which project areas could become quality assurance objects, and to know which members of the project team should be involved in project assurance activities.

Measures

- Identifies the organisation's routine and special rules for decision making in cases beyond his or her competence and responsibility
- Aligns the communication in projects with the needs of the permanent organisation
- Applies the reporting standards of the parent organisation to the project, using specific tools and methods
- Applies the organisation's way of quality assurance when setting up a reporting system within the permanent organisation.

4.3.2.6 Align the project with human resource processes and functions

Description: The human resource function provides multifaceted support to the project in relation to team member contracts, temporary employment, training, salaries, incentives, stress, wellbeing, ethics, and team entries and withdrawals. A well-established relation with the human resource processes and functions may increase the influence on resource availability and quality in terms of adequate competences. To ensure the necessary support from the human resource function, the professional or practitioner has to establish and maintain relations with relevant contact people within it.

Measures

- Uses the human resource function for acquiring staff with the required competences
- Deals with the boundaries between the temporary organisation and the human resource function
- Establishes and maintains relations with the human resource function
- Uses human resource processes to provide training and professional or practitioner development

4.3.2.7 Align the project with finance and control processes and functions

Description: The finance and control function of an organisation is often established as a line function providing mandatory rules, procedures and guidelines. Knowing these rules and how to utilise them effectively and efficiently are crucial for the professional or practitioner for successful funding, monitoring and/or reporting on financial topics. The finance and control function of an organisation often serves as a support function, offering a variety of utility functions for the professional or practitioner such as how to apply for, justify, manage and report on financial resources and how to manage, administer, distribute, monitor and manage finances. The professional or practitioner needs to know various financial models for funding (public, private, public/private partnerships, subsidies, commercial, etc.) endorsed by the permanent organisation. To ensure the necessary support from the finance and control function, the professional or practitioner can benefit from establishing and maintaining relations with the relevant contact people within the finance and control function.

Measures

- Knows the processes of the finance and control function
- Distinguishes between the compulsory and optional utilities of the finance and control function
- Monitors and controls whether rules, guidelines and other financial utilities are effectively and efficiently used in projects to the benefit of the project
- Communicates and reports the status and trends of financial tasks clearly and objectively

4.3.3 Compliance, standards and regulations

Definition: The compliance, standards and regulations competence element describes how the professional or practitioner interprets and balances the external and internal restrictions in a given area such as country, company or industry. Compliance is the process of ensuring adequate adherence to a given set of norms. Compliance requirements operate on a spectrum from voluntary and informal, to mandatory and formal. Standards and regulations influence and define the way projects should be organised and managed to be feasible and successful. Standards and regulations address compliance with requirements that include legislation and regulations, contracts and agreements, intellectual property and patents, health, safety, security and environmental protection, and professional standards.

Purpose: The purpose of this competence element is to enable the professional or practitioner to influence and manage the alignment of the relevant standards and regulations within the permanent organisation; the relevant sources of legislation and the standards and norms of both the organisation and the wider society; and to improve the organisation's approach to these areas.

Description: Projects face different restrictions and requirements for developing a product or service beside the effect of the production and project management processes. These restrictions correspond to the geographical, social and professional specifics of the project and its external environment in the form of laws, standards and regulations. Before starting a project, the professional or practitioner needs

to analyse the scope and configuration of the project and seek out the relevant standards and regulations that will have a direct or indirect influence on it. The relevant standards and regulations should be considered as potential risks and opportunities that need management attention. Compliance with relevant standards and regulations may affect the organisational structures, processes and culture. In the domain of project management, the professional or practitioner may be called upon to understand and integrate relevant standards within their project.

This competence element includes benchmarking and improving the organisational project management competences. Developing project management competence is a constant process, a part of an organisation's continuous improvement strategy and the duty of every individual. It involves learning and improving strategies for influencing the project management cultures in organisations. The professional or practitioner should use this competence to demonstrate how all parts and layers of the management system might be improved. By increasing the project, programme or project portfolio management competence, the organisation increases its ability to choose and perform successful projects, programmes and portfolios and thus achieve the sustainability of the organisation.

Knowledge

- Law regulation systems involved
- Autonomous professional regulation
- Professional standards and norms, e.g. IPMP standards
- ISO standards (e.g. ISO21500 guidance on project management or other standards of ISO/TC258)
- Sustainability principles
- Benchmarking theory
- Benchmarking tools and methods
- Knowledge management
- Codes of ethics
- Codes of business conduct
- Differences between law theories

Skills

- Critical thinking
- Benchmarking
- Adapting standards to specific organisations
- Communicating standards and regulations
- Leading by example

Related competence elements

- All other perspective competence element
- People 5: Leadership
- People 9: Negotiation
- Practice 1: Design
- Practice 2: Requirements and objectives
- Practice 5: Organisation and information
- Practice 6: Quality
- Practice 11: Risk and opportunity

Key Competence Indicators

4.3.3.1 Identify, and ensure that the project complies with all relevant legislation

Description: The professional or practitioner knows the legal policies of an organisation and is able to implement them in a project. Furthermore the professional or practitioner knows which parts of law regulations (civil, criminal, labour, intellectual property, etc.) and common good practices are relevant to the project. The professional or practitioner has to ensure the project operates within the law and should be able to recognise or find out which activities have special legal requirements and what law principles apply to it. The professional or practitioner is able to recognise the unknown legal issues that need to be considered and therefore knows the formal procedures for obtaining specialist advice and how to identify and provide the relevant project information. The professional or practitioner also knows which requirements of the regulatory agencies concerned with the project scope are relevant to the project, how these requirements can be satisfied and which inspection procedures should be applied.

Measures

- Acknowledges the legal context and its applications
- Filters out and uses the relevant law regulation
- Identifies risks in the regulations in relation to the project and consults the experts
- Acknowledges and manages the regulatory agencies as stakeholders
- Aligns procurement routes with the regulations

4.3.3.2 Identify, and ensure that the project complies with all relevant health, safety, security and environmental regulations (HSSE)

Description: The professional or practitioner knows which of the health, safety, security and environmental (HSSE) regulations are relevant to the project. Further, the professional or practitioner is able to recognise any potential HSSE issue that needs special consulting. The professional or practitioner is able to determine how project activities or project products can affect the project team members, and those who will use the product and the environment, and applies HSSE protective measures when necessary. The professional or practitioner balances economic, social and environmental aspects of the project to meet the requirements for sustainable development and to make the project results sustainable.

Measures

- Identifies the relevant HSSE regulations for the project
- Defines the HSSE context for the project
- Identifies risks arising from implementing HSSE measures to the project
- Provides a safe, secure and healthy environment for the project team members
- Applies HSSE for project sustainability

4.3.3.3 Identify, and ensure that the project complies with all relevant codes of conduct and professional regulation

Description: The professional or practitioner should be able to identify relevant professional regulations for the context in which the project operates. Each context usually has specific codes of conduct (ethical norms written down in formal documents) and trading customs which sometimes are prescribed by law. Moreover they are often directly tied with procurement procedures and, if not understood, could be a high risk for a project.

Measures

- Knows the appropriate codes of business conduct
- Knows the appropriate professional regulation for the particular industry sector (public administration, civil engineering, information technology, telecommunication, etc.)
- Identifies ethics principles
- Identifies and uses the tacit trading laws not set by the code
- Aligns procurement practices with the codes of business conduct
- Works to prevent violation of the code by the project team members

4.3.3.4 Identify, and ensure that the project complies with relevant sustainability principles and objectives

Description: The professional or practitioner is able to assess the impact of the project on the environment and society. Realising his or her responsibility, the professional or practitioner researches, recommends and applies measures to limit or compensate negative consequences. The professional or practitioner follows (or even exceeds) guidelines and rules on sustainable development coming from within the organisation and from the wider society, and is able to realise a workable balance between the demands of society, impacts to the eco-environment and the economy. The professional or practitioner understands that sustainability aspects, measures and attitudes often vary in different countries and cultures.

Measures

- Identifies the social and environmental consequences of the project
- Defines and communicates the sustainability targets for the project and its outcomes
- Aligns objectives with organisational strategy for sustainability
- Balances the demands of society, the environment and the economy (people, planet, profit) with project processes and products
- Encourages the development and diffusion of environmentally friendly technologies

4.3.3.5 Assess, use and develop professional standards and tools for the project

Description: The professional or practitioner is able to comply with and utilise top professional standards. Those good practices in project management come from a combination of the world leading standards and personally developed tools and methods. The professional or practitioner takes them into account while selecting appropriate tools, methods and concepts (e.g. project life cycle, stakeholder management, risk management, etc.). Therefore a professional or practitioner always tries to find the best recipe for managing the project by utilis-ing top professional standards (one or several) and adding and developing further improvements.

Measures

- Identifies and uses the relevant professional standards
- Identifies the specifics of a standard and manages the risks arising from applying a standard to a project
- Identifies and uses the best practice for managing a project
- Develops and implements custom made standards for managing project team members

4.3.3.6 Assess, benchmark and improve the organisational project management competence

Description: The benchmarking project management competence is a process of continuous improvement by comparing the organisation's project management processes with those which are

identified as good practice. The professional or practitioner strives to develop project management competence. The good practices can often be identified as those that apply in world class organisations. Usually these organisations are promoted as top project management performers and have won internationally recognised project management awards (e.g. IPMA Project Excellence Award). The purpose of the benchmarking process is to gain superiority in project management, by acquiring the know-how of a superior organisation. Organisational benchmarks often follow a staged maturity or competence model of organisations defining what structures, processes, methods and professional or practitioner skills an organisation has to fulfil to reach a certain maturity level or class of competence. Benchmarking can be conducted on an internal basis (against different projects within an organisation), a competitive basis (against an organisation which is a direct competitor often hard to tackle) and a functional or generic basis (against an organisation not competing in the same market or within the same industry). Professional or practitioner always try to improve their project management in a way that contributes to the organisation's strategic goals. Furthermore, the professional or practitioner is able to identify the governing processes and structures (e.g. a project management office) relevant to the project management process and is able and willing to do or suggest improvements on an organisational level. Finally, improvements made are disseminated throughout the organisation.

Measures

- Identifies and assesses the relevant deficient areas of organisational competence in project management
- Identifies and sets relevant benchmarks for the deficient areas
- Identifies the benchmarking baseline and best practice
- Benchmarks current performance against the best practice
- Identifies measures for the needed improvements
- Implements the identified measures and assesses the benefits gained
- Disseminates the acquired know-how throughout the project organisation

4.3.4 Power and interest

Definition: The power and interest competence element describes how the professional or practitioner recognises and understands informal personal and group interests and the resulting politics and use of power. This competence element defines how professional or practitioner participating in projects should recognise how informal influences (resulting from personal and group ambitions and interests, and modified by personal and group relations) relate with the project context. These informal influences differ from formal interests (as for instance formalised in a business justification) that derive from the organisation's strategy or from standards, regulations, etc.

Purpose: The purpose of this competence element is to enable the professional or practitioner to use power and interest techniques to achieve stakeholder satisfaction and deliver the agreed outcomes within the constraints of time and budget.

Description: Power is the ability to influence the behaviour of others. A substantial part of influence comes from informal power that is that part of power which is not 'solidified' into formal roles, structures or processes. This informal aspect of power is often motivated by personal ambitions and interests. Stakeholder's usually also have personal ambitions and interests and they will often try to use their influence to suit the processes and/or outcomes of the project to their interests. These actions may help or thwart the project. Understanding and being able to influence and use these informal personal interests, and the resulting politics, is essential to ensure project success.

Apart from cultural aspects and values, each person has his or her own style and personality. Professional or practitioner approach will influence the way power is exercised. In the domain of project management, the professional or practitioner may be called upon to exert sufficient influence in order to realise the successful completion of the project. The professional or practitioner may also need to recognise and prioritise the interests of key project stakeholders.

Interest is an attraction to a specific topic or desired outcome, for instance a certain desire toward or away from an object, situation, position, outcome or opinion. People often try to realise their interests by exercising their influence. Interest is often pursued through formal and informal relations, which can result in group influence. Groups may consist of informal groups of colleagues or friends, or formal structures such as departments, councils and boards. In formal groups, care should be taken to distinguish the formal role or power from the informal influence, which may come from other power sources. Examples of informal power include referent or expert power.

Knowledge

- Formal organisation (staff, line, etc.) versus informal structures
- Informal decision making processes
- Formal and informal power and influence
- Difference between power and authority
- Reach of influence
- Sources of interests
- Conformity
- Bases of power
- Project psychology
- Organisational culture and decision making
- Power theories

Skills

- Observing and analysing psychological processes
- Recognising and using influence
- Using power when appropriate
- Discovering values
- Revealing stakeholders' interests

Related competence elements

- All other perspective element competence
- People 2: Personal integrity and reliability
- People 3: Personal communication
- People 4: Relations and engagement
- Practice 5: Leadership
- Practice 9: Negotiation
- Practice 1: Design
- Practice 12: Stakeholders

Key Competence Indicators

4.3.4.1 Assess the personal ambitions and interests of others and the potential impact of these on the project

Description: People have goals and ambitions, for example career goals, or a desire to improve society or improve themselves. They also have interests that are related to these ambitions and influence the interests they have in the project and its success. Part of their ambitions and interests will often be congruent with their present formal position, that is, performing the tasks that they are formally required to do may help realise their ambitions and interests. Then again, their ambitions and interests may go beyond (or even be partly at odds with) the formal interests of their formal position. Being able to identify the ambitions and personal interests of people (stakeholders, team members or colleagues) is often necessary in order to work with them in an efficient and effective way.

Measures

- Acknowledges and assesses the personal ambitions and interests of relevant people or groups
- Acknowledges and assesses the differences between personal and organisational interests and goals

4.3.4.2 Assess the informal influence of professional or practitioner and groups and its potential impact on the project

Description: Informal influence has to be distinguished from the formal influences as laid down in organisational documents and processes. People may have influence for many reasons and through many different means. Apart from the formally agreed on legitimate power (of e.g. department heads, executives, judges and school teachers) there are many other bases of power, for instance coercive, reward, referent, and expert power. Relations are a strong base of power, too. Influencing decisions through use of personal relations is a common and often effective way. There is often a marked difference in the ability of people or groups to influence certain kinds of decisions, or decisions taken in a specific knowledge area or part of the organisation ('reach' of influence). Every person and group influence has its own reach, and it is important to know this reach.

Measures

- Acknowledges and can estimate the influence, power and reach of certain professional or practitioner in various settings
- Is able to discern group affiliations and relations in relation to the project

4.3.4.3 Assess the personalities and working styles of others and employ them to the benefit of the project

Description: Everybody is unique, and will act and operate in his or her specific way. Style is also influenced by cultural factors, as discussed in 'Culture and values'. Different people may have the same ambitions and/or interests, yet may use a different style in using their influence. Other people may display the same behaviour or style, yet differ in ambitions and/or interests. The professional or practitioner has to acknowledge the differences while working with professional or practitioner and groups in an efficient and effective way.

Measures

- Identifies and acknowledges the differences between behavioural style and personality

- Identifies and acknowledges the differences between cultural aspects and personality

4.3.5 Culture and Values

Definition: The culture and values competence element describes the individual's approach to influence on the organisation's culture and values and the wider society in which the project is situated. It also includes the acknowledgement by the professional or practitioner participating in or leading a project of the consequences of these cultural influences for the project and how to incorporate this knowledge in the management of the project. Culture may be defined as a set of related behaviours within a community, and the importance that professional or practitioner within the community attach to it. Values may be defined as a set of concepts on which the professional or practitioner in the community base their actions. Explicit definitions of values might include codes of ethics. Many organisations also describe corporate values explicitly in their strategy.

Purpose: The purpose of this competence element is to enable the professional or practitioner to recognise and integrate the influence of internal and external cultural aspects on the project approach, objectives, processes, sustainability of the outcomes, and agreed outcomes.

Description: Organisations are social systems, where personal behaviour is embedded in a social context of shared values, visions, norms, symbols, beliefs, habits, goals, etc.; in short, a culture. This culture has formal, explicit origins and aspects (such as the organisation's explicit mission and corporate values) as well as informal, more implicit aspects (such as beliefs, common practices, etc.). Moreover, every organisation operates in a society, which also has a specific culture (and possibly subcultures) including values, norms, symbols, beliefs, habits, etc. All these cultural aspects affect the way the people within that society, organisation, and projects interact with each other and all other internal and external stakeholders. Projects are often integral parts of the parent organisation(s) and at the same time projects are temporary organisations, which need their internal culture to be aligned with external cultures (external adaptation and internal integration). In the domain of project management, the professional or practitioner may be called upon to align the project with the organisational culture and values set. In a multi-cultural project, the professional or practitioner may need to navigate multiple cultural and value norms.

Culture and value alignment is even more crucial for projects that extend across different societies, organisations or groups, thereby forming a multi-cultural environment. Before starting a project, and periodically after that, the professional or practitioner needs to acknowledge the relevant culture(s) within the internal and external context of the project and the organisation. The professional or practitioner has to align (and periodically re-align) the project's culture to these in order to reach the goals and objectives in the most effective and efficient way. If available, results of researches, internal or external standards, regulations or guidelines (e.g. governance principles, codes of conduct) for aligning the cultures may be used. Projects are sometimes explicitly set up to change organisational culture and value sets. Lessons learned at the end of a project could be used to improve the culture alignment in future projects.

Knowledge

- Relevant cultural traits, values, norms and admissible behaviour
- Organisational mission and vision
- Mission statements
- Corporate values and policies
- Quality policies

- Ethics
- Corporate social responsibility (CSR)
- Green project management
- Theories about culture

Skills

- Values awareness
- Cultural awareness
- Respect for other cultures and values
- Aligning to and working within different cultural environments
- Dealing with issues related to cultural aspects
- Bridging different cultures and values to achieve the project, programme or portfolio objectives

Related competence elements

- All other perspective CEs
- People 2: Personal integrity and reliability
- People 3: Personal communication
- People 4: Relations and engagement
- Practice 1: Design
- Practice 6: Quality
- Key competence indicators

4.3.5.1 Assess the culture and values of the society and their implications for the project

Description: All projects are embedded in a society (sometimes even in more than one). The society's values and unwritten rules can deeply influence the way in which communication is executed and decisions are made. It can also influence how transgressions from the common norm are judged and dealt with; it can define or influence working hours, and how, when, where and with whom information, office space and meals can be shared, etc. The professional or practitioner needs a working knowledge of the cultural basis, values and norms of the society or societies in which the project takes place. The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the project, take these into account in the approach and periodically review them.

Measures

- Knows and acknowledges the cultural values, norms and demands of a society
- Knows acknowledges stands the implications of cultural values, norms and demands for the project
- Works according to societal cultural demands and values without compromising personal values

4.3.5.2 Align the project with the formal culture and corporate values of the organisation

Description: All projects need to be aligned with the values of the organisation and have to follow the formal cultural rules and demands of related functional departments or support units, and the culture of superordinate projects and strategic decision making bodies. Sometimes the espoused values are written down in one or more documents (for instance mission statement, quality policy, or corpo-rate values). The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the project and take these into account in the approach. Moreover, the professional

or practitioner needs to be sure that the project supports the sustainable development of the organisation, which also includes corporate social responsibility (CSR).

CSR is a lever of control in complying with legal and nongovernmental regulations, professional standards and other ethical and international norms. By CSR, if practised in the right way, an organisation encourages a positive impact through its activities on the environment, consumers, employees, communities, stakeholders and all other members of the society

Measures

- Acknowledges and respects the organisation's formal norms and demands
- Knows and applies the organisation's corporate values and mission
- Knows and applies the quality policy of an organisation
- Acknowledges the implications of formal norms, demands, corporate values and mission and quality policy for the project
- Acts sustainably by practising corporate social responsibility

4.3.5.3 Assess the informal culture and values of the organisation and their implications for the project

Description: All projects are linked to an organisation (or more than one) with its own informal culture. While the formal aspects of the organisational culture can have a significant influence, many more aspects, such as artefacts and assumptions, also influence an organisation's culture or subcultures. Artefacts include its architecture, furniture, dress codes, office jokes, etc. Assumptions are deeply embedded, usually unconscious behaviours, such as the way people address and treat each other (including subordinates and managers), how problems and challenges are dealt with and the tolerance for mistakes or irregular behaviour, all resulting from the history and cultural background of the organisation, its employees and its management. The professional or practitioner should analyse the cultural basis of the organisation(s) for and in which the project takes place. The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the project and take these into account in his or her approach.

Measures

- Acknowledges, analyses and respects the informal culture and values of the organisation(s)
- Identifies the implications of the organisation's informal culture and values for the project in conformity with the organisation's informal values and norms

4.4 People

The competence area 'people' deals with the personal and social competences of the individual. It defines ten competences:

- Self-reflection and self-management
- Personal integrity and reliability
- Personal communication
- Relations and engagement
- Leadership
- Teamwork
- Conflict and crisis
- Resourcefulness
- Negotiation

- Results orientation

4.4.1 Self-reflection and self-management

Definition: Self-reflection is the ability to acknowledge, reflect on and understand one's own emotions, behaviours, preferences and values and to understand their impact. Self-management is the ability to set personal goals, to check and adjust progress, and to cope with daily work in a systematic way. It includes managing changing conditions and dealing successfully with stressful situations.

Purpose: The purpose of this competence element is to enable the professional or practitioner to control and direct his or her behaviour by acknowledging the influence of his or her personal set of emotions, preferences and values. This enables effective and efficient use of the individual's resources and leads to positive work energy and a balance between inside and outside work.

Description: An intrinsic set of emotions, preferences and values guides all our decisions and actions. Being aware of and reflecting on this set and its impacts on behaviour offers you the opportunity to lead yourself. Reflecting on personal values and behaviour, seeking feedback and being aware of the professional or practitioner natural primary reactions opens up the possibility of changing and improving behaviour. Being able to control primary reactions supports consistent behaviour, decision making, communication and the leading of others. Adopting a systematic and disciplined approach to coping with daily work means managing how to spend time in order to accomplish prioritised objectives. Increasing the work efficiency does not mean working harder, but enables the professional or practitioner to achieve results to a higher level of satisfaction and motivation. The professional or practitioner works autonomously and independently from external influences, using opportunities to apply lessons learned.

Knowledge

- Reflection and self-analysis techniques
- Stress management of self and others
- Relaxation techniques and methods
- Pace of work
- Feedback rules and techniques
- Prioritisation techniques
- Personal time management
- Checks of progress
- Formulation of objectives (e.g. SMART- method)
- Effectiveness theories

Skills

- Awareness of own work styles and preferences
- Awareness of instances that lead to personal distractions
- Self-reflection and self-analysis
- Controlling emotions and focusing on tasks, even when provoked
- Self-motivation
- Delegating task
- Setting meaningful and authentic professional or practitioner goals
- Carrying out regular checks of progress and results
- Dealing with mistakes and failures

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators**4.4.1.1 Identify, and reflect on the ways in which own values and experiences affect the work**

Description: To identify and reflect personal values and passions the professional or practitioner has to acknowledge and reflect on his/her intrinsic set of opinions, standpoints, ideals and ethical values. This is the basis for consistent decisions and actions. Personal experience has a strong influence on how the professional or practitioner makes sense of situations and people. His or her personal experience of how the world works and how people behave influences the way the professional or practitioner thinks and acts. By understanding the personal sense-making processes, the professional or practitioner can identify why his or her interpretation might differ from someone else's, and so reduce the effect of bias. The opposite is to neglect the influence of experience and expect that everyone sees the 'reality' as the professional or practitioner does.

Measures

- Reflects on own values
- Uses own values and ideals to shape decisions
- Communicates own principles and personal demands
- Expresses and discusses own experience
- Puts own experience in perspective
- Uses own experience to build hypotheses about people and situations

4.4.1.2 Build self-confidence on the basis of personal strengths and weaknesses

Description: Being self-aware includes reflection on personal strengths and weaknesses. The professional or practitioner is aware of what he or she is good at and passionate about and which tasks should be delegated or left to others. Knowing his or her personal talents and accepting limitations creates a feeling of personal worth. The professional or practitioner demonstrates self-confidence by relying on personal capacities and capabilities. The opposite is to remain troubled about your person or personality, continuing to doubt your talents and potential and overreacting if others impose on your personal weaknesses.

Measures

- Identifies own strengths, talents, limits and weaknesses
- Leverages strengths, talents and passions
- Identifies solutions to overcoming personal weaknesses and limitations
- Maintains eye contact even in stressful situations
- Accepts setbacks without losing confidence

4.4.1.3 Identify, and reflect on, personal motivations to set personal goals and keep focus

Description: Knowing one's personal motivations enables the professional or practitioner to set personal goals that give direction and release energy. The professional or practitioner knows what drives him or her and can transform this into personal goals. The professional or practitioner has control over

his or her emotions, even when provoked. The opposite is to 'go with the flow', live life as it comes and refrain from giving a direction. Once the goals are set, the professional or practitioner has a diligent approach to staying focused on the tasks. The professional or practitioner is able to focus on tasks despite interruptions and is aware of the instances that lead to distraction. The professional or practitioner avoids procrastinating and postponement, which causes stress to the professional or practitioner as well as to teams. This also includes the application of prioritisation techniques. Keeping focus includes the ability to cope with daily work as well as communications and relations.

Measures

- Demonstrates knowledge of own motivations
- Sets personal and professional goals and priorities
- Selects actions that contribute to the personal goals
- Names personal distractors
- Regularly reflects in order to maintain focus on the goals
- Delivers personal commitments on time
- Focuses on tasks despite numerous distractions or interruptions
- Provides own direction or seeks clarification in uncertain situations

4.4.1.4 Organise personal work depending on the situation and own resources

Description: No two situations are the same. What works or worked in one situation may not work in another. The professional or practitioner therefore strives to 'read' situations and people and adapts behaviour to the specific circumstances in order to realise the intended results and reach his or her goals. By choosing a personal organisation and managing his or her own resources, the professional or practitioner shows the ability to prioritise and balance the various tasks in an effective and efficient way. Time, money and energy wasting is avoided by prioritising responsibilities and performing value-adding tasks. The professional or practitioner arranges workload to avoid too much stress and includes relaxation when possible and necessary.

Measures

- Keeps record of own time planning
- Prioritises competing demands
- Says no when appropriate
- Engages resources to maximise delivery
- Adapts language
- Develops tactics appropriate to the situation

4.4.1.5 Take responsibility for personal learning and development

Description: The professional or practitioner is focused on continuous learning and always strives to improve the quality of his or her work, actions and decisions. Accepting feedback and seeking consultation enables personal development and learning. If the professional or practitioner understands and utilises the perceptions and views of others, including critical observations or remarks, personal positions and behaviour can be questioned and improved. The opposite is to remain unchanging, seeing all feedback as criticism, never accepting criticism and refusing to alter his or her ways. The professional or practitioner strives to develop by leveraging all criticism and feedback as opportunities for growth.

Measures

- Uses mistakes or bad results as an impulse for learning activities
- Uses feedback as a chance for personal development
- Seeks consultation
- Measures own performance
- Focuses on continuous improvement of own work and capacities

4.4.2 Personal integrity and reliability

Definition: The delivery of projects benefits involves making many professional or practitioner commitments to get things done. Professional or practitioner must demonstrate personal integrity and reliability because a lack of these qualities may lead to a failure of the intended results. Personal integrity means the professional or practitioner is acting in accordance with his or her own moral and ethical values and principles. Reliability is acting dependably, according to expectations and/or agreed behaviour.

Purpose: The purpose of this competence is to enable the professional or practitioner to make consistent decisions, take consistent actions and behave consistently in projects. Maintaining personal integrity supports an environment built on trust that makes others feel secure and confident. It enables the professional or practitioner to support others.

Description: Integrity and reliability are built on consistency of values, emotions, actions and outcomes, by saying what you do, doing what you say. By using ethical standards and moral principles as a basis for actions and decisions, and by taking responsibility for professional or practitioner actions and decisions, confidence is enabled and promoted. The professional or practitioner is a person to rely on.

Knowledge

- Codes of ethics/codes of practice
- Social equity and sustainability principles
- Personal values and moral standards
- Ethics
- Universal rights
- Sustainability

Skills

- Development of confidence and building of relationships
- Following own standards under pressure and against resistance
- Correcting and adjusting personal behaviour

Related competence elements

- All other people CEs
- Perspective 3: Compliance, standards and regulations
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

4.4.2.1 Acknowledge and apply ethical values to all decisions and actions

Description: The professional or practitioner should acknowledge his or her own values, as these values are the foundation for consistent decisions and actions. Understanding values includes being able to express opinions and positions on a variety of topics. The professional or practitioner communicates his or her principles, thereby demonstrating what they stand for. The professional or practitioner makes others feel secure by being predictable in decisions and actions. The professional or practitioner is able to identify inconsistencies and to articulate reasons for discord between statements and actions.

Measures

- Knows and reflects own values
- Uses own values and ideals to shape decisions
- Communicates own principles

4.4.2.2 Promote the sustainability of outputs and outcomes

Description: Promoting sustainability means focusing on the endurance of solutions even when engaged in time-limited tasks. Sustainability is not only about social equity, environment protection or economic results. It is the consideration of the long-term outcomes and effects of behaviour. The professional or practitioner has the ability to keep the bigger picture in mind and act accordingly.

Measures

- Proactively addresses sustainability issues in solutions
- Considers and incorporates long-term outcomes into the solution

4.4.2.3 Take responsibility for own decisions and actions

Description: To take responsibility means the professional or practitioner takes decisions and acts while keeping in mind that the professional or practitioner is fully liable for the consequences – in both a positive and negative way. The professional or practitioner sticks by decisions and agreements established with others. The professional or practitioner feels responsible for the team success on behalf of all the interested parties.

Measures

- Assumes full responsibility for own decisions and actions
- Demonstrates ownership of both positive and negative results
- Takes decisions and sticks to agreements established with others
- Addresses personal and professional shortcomings that get in the way of professional success

4.4.2.4 Act, take decisions and communicate in a consistent way

Description: Consistency means that the professional or practitioner makes sure that words, behaviour and actions match. By applying the same guiding principles throughout your actions, decisions and communication your behaviour is predictable and repeatable in a positive sense. Being consistent does not exclude flexibility in revising plans, if the need for changes is indicated or to adapt to special situations.

Measures

- Demonstrates alignment between words and actions
- Uses similar approaches to solve similar problems
- Adjusts personal behaviour to the context of the situation

4.4.2.5 Complete tasks thoroughly in order to build confidence with others

Description: The professional or practitioner completes tasks in a thorough and careful way. This inspires others to be confident, and make promises and agreements. The professional or practitioner is recognised as someone on whom others rely. Work results would be characterised by others as consistently good quality.

Measures

- Completes work assignments thoroughly and carefully
- Earns confidence through the delivery of complete and accurate work

4.4.3 Personal Communication

Definition: Personal communication includes the exchange of proper information, delivered accurately and consistently to all relevant parties.

Purpose: The purpose of this competence element is to enable the professional or practitioner to communicate efficiently and effectively in a variety of situations, to different audiences and across different cultures.

Description: Personal communication describes the essential aspects of effective communication. Both the content and the means of communication (tone of voice, channel, and amount of information) have to be clear and appropriate for the target audience. The professional or practitioner has to verify the understanding of messages by actively listening to the target audience and seeking feedback. The professional or practitioner promotes open and sincere communication and is able to use various means for communication (presentations, meetings, written forms, etc.) and acknowledge their value and limitations.

Knowledge

- Differences between information and message
- Different methods of communicating
- Different questioning techniques
- Feedback rules
- Facilitation
- Presentation techniques
- Communication channels and styles
- Rhetoric
- Characteristics of body language
- Communication technologies

Skills

- Use different ways of communicating and different styles for effective communication
- Active listening
- Questioning techniques
- Empathy
- Presentation and moderation techniques
- Effective use of body language

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 12: Stakeholders

Key Competence Indicators

4.4.3.1 Provide clear and structured information to others and verify their understanding

Description: To give clear information means to structure and translate information in such a way that the receiver can understand and use it. The professional or practitioner must utilise a logical and structured way of communicating in order to verify understanding. The professional or practitioner must obtain confirmation that the receiver of information has understood the message as intended. That means focusing on the receiver, not on the information itself, and asking for validation when needed.

Measures

- Structures information logically depending on the audience and the situation
- Considers using story-telling when appropriate
- Uses language that is easy to understand
- Leverages public speaking and presentations
- Coaches and gives training
- Leads and facilitates meetings
- Uses visualization, body language and intonation to support and emphasise messages

4.4.3.2 Facilitate and promote open communication

Description: To facilitate and promote open communication means actively inviting others to give their input and opinions on relevant topics. This requires an atmosphere of confidence, so that people can express their ideas and opinions without being rebuffed, punished or ridiculed. It should be made clear when and how others are free and/or invited to propose ideas, emotions and/or opinions, and when the time is less appropriate. In the latter situations, people and their input should still be treated with respect. To listen and give feedback is to seize opportunities for the exploration and exchange of opinions. The professional or practitioner has a genuine interest in others' views and creates open and informal frameworks for feedback. The professional or practitioner makes people feel they and their opinions are valued.

Measures

- Creates an open and respectful atmosphere
- Listens actively and patiently by confirming what has been heard, re-stating or paraphrasing the speakers' own words and confirming the understanding
- Does not interrupt or start talking while others are talking
- Is open and shows true interest in new ideas
- Confirms message/information is understood or, when needed, asks for clarification, examples and/or details
- Makes clear when, where and how ideas, emotions and opinions are welcome
- Makes clear how ideas and opinions will be treated

4.4.3.3 Choose communication styles and channels to meet the needs of the audience, situation and management level

Description: The professional or practitioner chooses the appropriate way of communicating for the target audience. The professional or practitioner is able to communicate on different levels and through different channels. Formal or informal, neutral or emotional communication should all be considered, as well as whether written, oral or visual communication is most appropriate.

Measures

- Selects appropriate communication channels and style depending on the target audience
- Communicates via selected channels according to the selected style
- Monitors and controls communication
- Changes the communication channels and style depending on the situation

4.4.3.4 Communicate effectively with virtual teams

Description: A virtual team consists of professional or practitioner who work across time zones, space and/or organisational boundaries. Communication within virtual teams is a challenge, as not all are located in the same environment and/or organisation, and they may be distributed over several organisations, cities, countries or continents. Communication between virtual team members is often asynchronous and not face-to-face, and has to use modern communication technology. The communication procedures have to consider aspects such as language, channel, content and time zones.

Measures

- Uses modern communication technology, e.g. webinars, tele-conferences, chat, cloud computing
- Defines and maintains clear communication processes and procedures
- Promotes cohesion and team building

4.4.3.5 Employ humour and sense of perspective when appropriate

Description: Work in projects can often be stressful. Being capable of viewing situations, problems and even your own work from different viewpoints is an important asset. Humour enables professional or practitioner to acquire a sense of perspective a way of judging how good, bad or important something is compared with other things. The release of tension through humour often facilitates cooperation and decision making. Humour is a powerful tool to decrease tension in situations where conflicts threaten to arise. Provided it is used in the right way, at the right time and with respect, humour can also facilitate communication.

Measures

- Changes communication perspectives
- Decreases tension by use of humour

4.4.4 Relations and Engagement

Definition: Personal relations build the foundation for the productive collaboration, personal engagement and commitment of others. This includes one-to-one relations as well as setting up a whole network of relations. Time and attention have to be invested in establishing durable and robust relations with professional or practitioner. The ability to form strong relationships is primarily driven by social competences such as empathy, trust, confidence and communication skills. Sharing visions and goals

with professional or practitioner and the team drives others to engage in tasks and to commit to the common goals.

Purpose: The purpose of this competence element is to enable the professional or practitioner to build and maintain personal relations and to understand that the ability to engage with others is a precondition for collaboration, commitment and, ultimately, performance.

Description: Personal relations are initiated by genuine interest in people. Building up relations is twofold. It is about establishing one-to-one relations, as well as creating and supporting social networks. In both situations, the professional or practitioner has to be able to interact openly with others. Once established the relations have to be maintained and improved by establishing and showing confidence, respectful interaction and open communication. Cultural differences can enhance interest and attractiveness as well as chances for misunderstandings that might endanger the quality of relationships. When personal relationships are established it is much easier to engage others when your own visions, goals and tasks are communicated in an enthusiastic way. Another way to engage others and get their commitment is to actively involve them in discussions, decisions and actions. In general, people tend to commit to goals and tasks more easily when asked in advance.

Knowledge

- Intrinsic motivation
- Motivation theories
- Handling resistance
- Values, traditions, professional or practitioner requirements of different cultures
- Network theory

Skills

- Use of humour as icebreaker
- Appropriate ways of communicating
- Respectful communication
- Respecting others and being aware of ethnical and cultural diversity
- Trusting own intuition

Related competence elements

- All other people competence elements
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 12: Stakeholders

Key competence indicators

4.4.4.1 Initiate and develop personal and professional relations

Description: To initiate and develop personal relations is to seek and make use of chances to establish contact with other people. The professional or practitioner demonstrates interest in people and is ready to engage with them. The professional or practitioner utilises possibilities and situations to create and maintain personal and professional contacts. The professional or practitioner is present, available, open for dialogue, and actively staying in contact. The professional or practitioner is visible and accessible for

team members, clients, customers or other stakeholders. The professional or practitioner acts attentively, acknowledges others and keeps them informed.

Measures

- Actively seeks possibilities and situations to make new contacts
- Demonstrates interest in meeting new people
- Uses humour as an icebreaker
- Is present, available and open for dialogue
- Stays actively in contact, establishes a routine for bilateral meetings

4.4.4.2 Build, facilitate and contribute to social networks

Description: Building, facilitating and contributing to social networks has various levels. On the lowest level, the professional or practitioner joins, and contributes to, networks with interesting and/or useful others. By doing so, new relations are established. On the second level, the professional or practitioner creates new networks and circles of his or her own, and so opens up new communication flows between others. The individual thus acts as a facilitator or communication hub. The next level of social networking is to make one's own relations available for others. This means enabling, enforcing and establishing relations between others that are sustained even without the professional or practitioner being engaged.

Measures

- Joins and contributes to social networks
- Creates and facilitates social networks
- Organises events for networking
- Facilitates support for networking

4.4.4.3 Demonstrate empathy through listening, understanding and support

Description: To demonstrate empathy means to show real interest and involvement with others and their well-being. The professional or practitioner listens attentively to others and ensures understanding by asking questions for clarification or detail. The professional or practitioner recognises emotions expressed or possibly just experienced by others. The professional or practitioner relates and reacts to these emotions in a sympathetic or compassionate way. The professional or practitioner offers support, even when it is not asked for.

Measures

- Listens actively
- Makes others feel heard
- Asks questions for clarification
- Relates to the problems of others and offers help
- Familiarises with the values and standards of others
- Responds to communication within a reasonable time

4.4.4.4 Show confidence and respect by encouraging others to share their opinions or concerns

Description: Having confidence in someone means having belief in their future actions or decisions, and being convinced of their positive intentions. The professional or practitioner does not have a hidden agenda but shares information with others. The professional or practitioner also accepts that showing confidence is an investment with an insecure outcome. The professional or practitioner takes others seriously, with their talents and opinions, and that success also depends on their actions and

commitment. To get optimal team performance it is crucial to understand the motivation of the team members. To get there, the professional or practitioner has to spend time with people in order to understand who they are and what makes them tick. The professional or practitioner should keep in mind that the values, experiences and goals of others might be very different from his or her own. Acting respectfully means treating others in a respectful way, as you would like to be treated yourself. The professional or practitioner takes others seriously by cherishing their opinions, their work and their person, regardless of gender, race, social status or background. Cultural diversity is respected. The professional or practitioner considers codes of conduct as guidelines for decisions and behaviour.

Measures

- Relies on a given word
- Assigns tasks to team members based on confidence
- Expects others to act according to common values and agreements
- Delegates work without monitoring and controlling every single step
- Asks others for their ideas, wishes and concerns
- Notices and respects differences between people
- Embraces the importance of professional and personal variety

4.4.4.5 Share own vision and goals in order to gain the engagement and commitment of others

Description: To share a vision and goals implies acknowledging and demonstrating a positive and enthusiastic attitude towards a certain task, process or goal while showing a realistic optimism. To inspire others requires an ambitious yet clear vision, realistic objectives and the ability to achieve commitment from the people concerned. To be self-committed is an important requirement for that. Inspiration is often achieved through a shared vision – a view of the future that people can believe in and want to be part of. This vision can either be explicit (even written down) or implicit. The vision serves as a motivator for change. To engage people and get their commitment means making them feel personally responsible for a good outcome. This can be done by various means – by asking their advice, by making them responsible for a task or by involving them in decisions. The professional or practitioner should make optimal use of the skills and experience of his or her co-workers. This means that people should be involved in decisions on the basis of what they can add to the existing knowledge. The same goes for sharing information, as this can enhance commitment. However, the professional or practitioner must also be aware of the dangers of information overload. As every team member has their own tasks, in some cases it is better to share information on a ‘need to know’ basis.

Measures

- Acts positively
- Clearly communicates vision, goals and outcomes
- Invites debate and critique of the vision, goals and outcomes
- Involves people in planning and decision making
- Asks for commitment on specific tasks
- Takes professional or practitioner contributions seriously
- Emphasises the commitment of all to realise success

4.4.5 Leadership

Definition: Leadership means providing direction and guidance to professional or practitioner and groups. It involves the ability to choose and apply appropriate styles of management in different situations. Besides displaying leadership with his or her team, the professional or practitioner needs to be seen as a leader in representing the project to senior management and other interested parties.

Purpose: The purpose of this competence element is to enable the professional or practitioner to lead, provide direction and motivate others, in order to enhance professional or practitioner and team performance.

Description: A leader has to be aware of different leadership styles and decide which is appropriate for his or her nature, for the project, and for the team being managed and other interested parties, in all types of situations. The leadership style adopted includes of behaviour, communication methods, attitudes towards conflicts, ways of controlling team members' behaviours, decision-making processes, and the amount and type of delegation. Leadership is important throughout the full life cycle of the project, and becomes especially important when change is required or when there is uncertainty about a course of action.

Knowledge

- Leadership models
- Professional or practitioner learning
- Communication techniques
- Coaching
- Sense-making and sense-giving
- Bases of power
- Decision taking (consensus, democratic/majority, compromise, authority, etc.)

Skills

- Personal self-awareness
- Listening skills
- Emotional strength
- Capacity to express a set of values
- Dealing with mistakes and failure
- Sharing values
- Creating team spirit
- Methods and techniques for communication and leadership
- Management of virtual teams

Related competence elements

- All other people competence element (CEs)
- All practice CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

4.4.5.1 Initiate actions and proactively offer help and advice

Description: To take the initiative means having the tendency and ability to start an unrequested action, including coming up with a proposal or advice, taking the lead and/or giving or helping without first being invited to do so. Taking the initiative requires the ability to think ahead, both of possible situations and possible solutions. Taking the initiative adds to one's influence and heightens one's visibility. On the

other hand, if the initiative is not welcomed or turns out badly, there is a risk of losing influence or status. So every initiative should always be guided by a careful weighing of pros and cons.

Measures

- Proposes or exerts actions
- Offers unrequested help or advice
- Thinks and acts with a future orientation (i.e. one step ahead)
- Balances initiative and risk

4.4.5.2 Take ownership and show commitment

Description: To take ownership means demonstrating personal buy-in. This commitment to the objectives of the project makes people believe in its value. The professional or practitioner acts as an entrepreneur by taking full responsibility for the process, and by spotting opportunities for improvement. The professional or practitioner constantly monitors processes and results to spot the right occasions for intervention and improvement and opens up possibilities for learning.

Measures

- Demonstrates ownership and commitment in behaviour, speech and attitudes
- Talks about the project in positive terms
- Rallies and generates enthusiasm for the project
- Sets up measures and performance indicators
- Looks for ways to improve the project processes
- Drives learning

4.4.5.3 Provide direction, coaching and mentoring to guide and improve the work of professional or practitioner and teams

Description: To give direction, coaching and mentoring means to give guidance and support to people and teams and establish conditions that engage people with their assignments. Coaching and mentoring is focused on improving the abilities and self-reliance of team members. Direction is guiding them in their activities. The professional or practitioner creates and communicates personal and common objectives and acts from these. The professional or practitioner creates and shares a vision that leads the project. To give direction, coaching and mentoring requires the ability to keep a cool head in demanding and unclear situations. It also requires that the professional or practitioner knows when and in what direction coaching or mentoring are needed and what form they should take. Sometimes it may be better to withhold a proposal or decision for a while to promote the self-reliance or creativity of teams or professional or practitioner.

Measures

- Provides direction for people and teams
- Coaches and mentors team members to improve their capabilities
- Establishes a vision and values and leads according to these principles
- Aligns professional or practitioner objectives with common objectives and describes the way to achieve them

4.4.5.4 Exert appropriate power and influence over others to achieve the goals

Description: To exert power and influence means being visible as a leader and opening up the possibility for others to follow. Therefore one needs to understand the demands of colleagues,

subordinates, clients and other interested parties, to respond to them and influence their expectations and opinions. To exert influence also means directing other people's actions, whether or not one is in command. A leader actively shapes views and creates the perception of situations, results and relations through words and actions. Sometimes the use of power is necessary to realise results or resolve deadlock; in other situations, a simple, well placed word may be even more effective. The open use of power may create resentment or invite counter power, so a leader should know when to use what power means and in what way. The use and effectiveness of power and influence is always tightly linked to communication. A leader should know the possibilities and limits of each communication means and channel.

Measures

- Uses various means of exerting influence and power
- Demonstrates timely use of influence and/or power
- Perceived by stakeholders as the leader of the project or team

4.4.5.5 Make, enforce and review decisions

Description: Making decisions means being able to select a course of action based on several possible alter-native paths. Often decisions are made with incomplete or even contradictory information, and with uncertain consequences. Making decisions entails consciously selecting from alternatives and choosing the one that is most consistent and aligned with the objectives. Decisions should be taken based upon analysis of the facts, and incorporating the views and opinions of others. Sometimes the information quality is so poor that decisions are based on intuition. Reviewing and being prepared to change prior decisions based on new information is an essential part of the ability to take decisions. Decisions often have to be taken by others (for instance by line managers, steering committees, etc.). The leader exerts his or her influence to have these others take the right decisions at the right time.

Measures

- Deals with uncertainty
- Invites opinion and discussion prior to decision making in a timely and appropriate fashion
- Explains the rationale for decisions
- Influences decisions of stakeholders by offering analyses and interpretations
- Communicates the decision and intent clearly
- Reviews decisions and changes decisions according to new facts
- Reflects on past situations to improve decision processes

4.4.6 Teamwork

Definition: Teamwork is about bringing people together to realise a common objective. Teams are groups of people working together to realise specific objectives. Project teams are commonly multi-disciplinary; specialists in different disciplines work together to realise complex outcomes. Teamwork is about building a productive team by forming, supporting and leading the team. Team communication and team relations are among the most important aspects of successful teamwork.

Purpose: The purpose of this competence element is to enable the professional or practitioner to select the right team members, promote a team orientation, and effectively manage a team.

Description: Teamwork covers the complete life cycle of teams. It starts with the initial phase of selecting the right team members. After that, the team has to be built, supported and steered. During the various phases of the project, as the team members and the team as a whole acquire more maturity

in their respective tasks, they can perform these tasks more independently and consequently are given more responsibility.

Team building is often done by the use of meetings, workshops and seminars that may include the professional or practitioner leading the project, team members and sometimes other interested parties. Team spirit (i.e. getting people to work well together) can be achieved through professional or practitioner motivation, team goal setting, social events, supporting strategies, and others. Problems may arise due to technical or economic difficulties or other kinds of stressful situations. Issues may also arise due to cultural and educational differences, different interests and/or ways of working, or members being located great distances apart. The professional or practitioner leading the team needs to continually develop the team and its members throughout the life cycle of the project.

During their time working for the project, the performance of team members should be regularly reviewed by the professional or practitioner leading the team in consultation with the line manager, to assess and respond to development, coaching and training needs. Where the performance of a team member is below the required standard, remedial action may be necessary. Throughout the life of a team, personal involvement should be encouraged, networking stimulated, a productive work environment facilitated and communication and relationships supported.

Knowledge

- Project organisation
- Team role models
- Team lifecycle models

Skills

- Recruiting and personnel selection skills
- Interview techniques
- Building and maintaining relationships
- Facilitation skills

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 8: Resources
- Practice 10: Plan and control

Key Competence Indicators

4.4.6.1 Select and build the team

Description: To ensure successful teamwork, the right resources for the team have to be selected. Apart from ensuring that they have the necessary knowledge and skills, the professional or practitioner leading the team also has to take care that the selected team members have the right 'chemistry' to be able to work together as a team. Before the chosen team can start performing, the professional or practitioner have to generate an understanding of themselves as a team. The role of the professional or practitioner leading the team is to translate professional or practitioner motivation into team

performance. The members have to be enabled to learn about each other and the tasks they are facing. Team building is a continuous task, but as the team matures the necessary activities for the professional or practitioner leading the team change accordingly.

Measures

- Considers professional or practitioner competences, strengths, weaknesses and motivation when deciding on team inclusion, roles and tasks
- Clarifies objectives and creates a common vision
- Sets the team objectives, agenda, and completion criteria
- Negotiates common team norms and rules
- Motivates professional or practitioner and builds team awareness

4.4.6.2 Promote cooperation and networking between team members

Description: Stimulating cooperation means actively influencing team participants to work together and contribute with their experience, knowledge, opinions, ideas and concerns, for the sake of the agreed objectives. Discussions and disagreements are an unavoidable consequence of this, but as long as the professional or practitioner leading the team makes sure that a productive and respectful atmosphere is maintained, team members can expect that conflict will lead to better performance. Whenever professional or practitioner team members set out to disrupt cooperation by playing a divisive or counterproductive role, the professional or practitioner leading the team needs to address this by correcting, and, in extreme cases, replacing the team member. The team leader can stimulate networking through physical and virtual activities where team members share their knowledge and motivate and inspire each other.

Measures

- Creates opportunities for team member discussions
- Asks for opinions, suggestions and concerns from team members in order to improve performance
- Shares successes with the team(s)
- Promotes cooperation with people both within and outside the team
- Takes appropriate action when team cooperation is threatened
- Uses tools for collaboration

4.4.6.3 Support, facilitate and review the development of the team and its members

Description: Team development involves continuously developing the team, encouraging members to gain new knowledge and skills. The role of the professional or practitioner leading the team is to support, enable and review these learning efforts as well as creating opportunities to share knowledge between team members, other teams and the organisation outside the project.

Measures

- Promotes continuous learning and knowledge sharing
- Uses techniques to engage in development (e.g. on-the-job training)
- Provides opportunities for seminars and workshops (on- and off-the-job)
- Plans and promotes 'lessons learned' sessions
- Provides time and opportunity for self-development of team members

4.4.6.4 Empower teams by delegating tasks and responsibilities

Description: Responsibility creates involvement. The professional or practitioner leading the team increases involvement – and professional or practitioner and collective empowerment – by delegating tasks and problems to teams or team members. Dependent on their task maturity, delegated tasks can be big, challenging and important. The output of delegated tasks to professional or practitioner and teams should be measured, with feedback cycles for the team to ensure learning occurs.

Measures

- Delegate's tasks when and where appropriate
- Empowers people and teams by delegating responsibility
- Clarifies performance criteria and expectations
- Provides reporting structures at team level
- Provides professional or practitioner and team feedback sessions

4.4.6.5 Recognize errors to facilitate learning from mistakes

Description: The professional or practitioner leading the team makes sure that the effect of errors and mistakes on the outcomes, processes and success of the project are kept to a minimum. The professional or practitioner is aware that mistakes can always happen and understands and accepts that people make errors. The professional or practitioner analyses mistakes and facilitates learning from mistakes. Errors and mistakes are used as a platform for change and improvement so that there is less chance of future errors. In some cases, the professional or practitioner leading the team can even promote behaviour that increases the chance of errors, if the project needs innovative ways to overcome problems and difficulties. Even then, the professional or practitioner leading the team ensures that the final outcomes, processes and project success are not affected negatively. The professional or practitioner seeks root-causes for mistakes and takes effective action to ensure that the same mistakes do not occur again.

Measures

- As far as possible, avoids negative effects of errors on project success
- Realises that mistakes happen and accept that people make errors
- Shows tolerance for mistakes
- Analyses and discusses mistakes to determine improvements in processes
- Helps team members to learn from their mistakes

4.4.7 Conflict and Crisis

Definition: Conflict and crisis includes moderating or solving conflicts and crises by being observant of the environment, and noticing and delivering a remedy for disagreements. Conflicts and crises may include events and situations, character conflicts, stress levels and other potential dangers. The professional or practitioner must handle these scenarios appropriately and stimulate a learning process for future conflicts and crises.

Purpose: The purpose of this competence element is to enable the professional or practitioner to take effective action when a crisis or clash of opposing interests/incompatible personalities occurs.

Description: Conflicts may occur between two or more people and/or parties. Very often, a conflict erodes a good working environment and may result in a negative effect for the parties involved. A crisis may be the outgrowth of a conflict, or it may be the result of a sudden, abrupt or decisive change in a

situation that threatens to thwart the realisation of the goals of the project, either direct or indirect. At such times, a rapid response is required and skilled judgment needs to be applied to assess the crisis, define scenarios to solve the crisis and secure the project and to decide whether to escalate the issue and how high this needs to go in the organisation.

The ability to identify potential conflicts and crises and to react accordingly needs an understanding of the fundamental mechanisms. The professional or practitioner can use a variety of means for reacting to potential or actual conflict and crisis, for example collaboration, compromise, prevention, persuasion, escalation or the use of power. Each depends on achieving a balance between interests. Transparency and integrity shown by the individual, acting as an intermediary between parties in conflict, will help in finding acceptable solutions. However, sometimes conflicts cannot be solved from within the team or the project but only by calling in independent mediating or deciding parties.

Knowledge

- De-escalation techniques
- Creativity techniques
- Moderation techniques
- Scenario techniques
- Conflict stage models
- Value of conflicts in team building
- Crisis plan
- Worst case scenarios

Skills

- Diplomatic skills
- Negotiation skills, finding a compromise
- Moderation skills
- Persuasiveness
- Rhetorical skills
- Analytical skills
- Stress resistance

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 8: Resources
- Practice 10: Plan and control
- Practice 11: Risk and opportunity

Key Competence Indicators

4.4.7.1 Anticipate and possibly prevent conflicts and crises

Description: To be aware of potential conflicts and crises means being alert and observant of situations that might lead to disagreements. Possible conflicts are ideally identified and prevented or tackled at an

early stage, before they expand. Prevention includes pre-empting conflict topics, keeping team members with conflicting characters or interests in separate teams and/or delegating conflict-sensitive items to specific people. Stress is a very likely factor in potential conflicts or crises, as people tend to get irritable under pressure. The professional or practitioner should therefore be able to recognize, assess and reduce professional or practitioner stress levels.

Measures

- Analyses potentially stressful situations
- Keeps conflicting characters or interests in separate tasks/teams
- Delegates conflict-sensitive items to specific people
- Implements preventive measures
- Takes stress-reducing measures
- Reflects on stressful situations in a team

4.4.7.2 Analyse the causes and consequences of conflicts and crises and select appropriate response(s)

Description: Conflicts pass through various stages, as defined by several theories. These stages can be summarised in three broad categories:

- **Latent (potential, slumbering, but not yet visible or acknowledged).** This exists whenever professional or practitioner or groups have differences that bother one or the other, but the differences are not great enough to cause one side to act to alter the situation
- **Emergent (visible but still rational).** This may happen when a 'triggering event' happens, for instance an open disagreement on a topic. This topic is either the real cause of the conflict, or a pretext for another conflict of interest or character. When the conflict is emergent, the involved parties are still on speaking terms and can discuss rational solutions.
- **Escalated (open conflict).** In this phase the parties are openly and emotionally at odds with each other and are not able or willing any more to discuss solutions calmly and rationally. Other people are tending to take sides, or they are or urged to. In some situations legal steps may be taken or considered.

Crises, by contrast, jump immediately to the third level without acknowledged intermediary steps. However, they are often not the result of conflict situations, but may arise because of a sudden or suddenly discovered issue – a major risk occurring, an outside event with great impact, etc. The art of conflict and crisis management is to assess causes and consequences and obtain additional information for use in the decision making process to define possible solutions. Conflicts and crises can have very different causes, varying from factual disagreements to character conflicts, and they may have origins that are external to the project or even the organisation. Depending on the causes, different solutions may be possible. Crises can also be differentiated by their potential impacts. Depending on the specific stage, different approaches to soothe, solve or escalate the conflict or crisis can be chosen.

Measures

- Assesses conflict stage
- Analyses causes of a conflict or crisis
- Analyses potential impact of a conflict or crisis

- Has different conflict or crisis approaches available to choose from

4.4.7.3 Mediate and resolve conflicts and crises and/or their impact

Description: Often conflict or crisis management has to be performed against a background of professional or practitioner and/or groups who are angry or in panic mode. In a minimum amount of time, the professional or practitioner has to pull the information together, weigh the options, aim for a positive and preferably synergistic solution and, most important, stay calm and in control. In these circumstances, relaxation and balanced judgment are important qualities. In situations of crisis the ability to act decisively is most important. The potential means of resolving conflicts involve collaboration, compromise, prevention or use of power. Each depends on achieving a balance between one's own and others' interests. Co-operative conflict management requires willingness to compromise among all parties. At early stages of conflicts the professional or practitioner can act as a moderator/mediator – at least when the professional or practitioner is not directly involved. The professional or practitioner brings the conflicting parties together and enables communication without being too judgmental. In later stages the options may include use of power, escalation to higher management, professional mediation and/or legal measures.

Measures

- Addresses issues openly
- Creates an atmosphere of constructive debate
- Selects and uses the right method to solve the conflict or crisis
- Takes disciplinary or legal measures when appropriate

4.4.7.4 Identify and share learning from conflicts and crises in order to improve future practice

Description: Once a conflict has been resolved, it is important to restore a sense of harmony and equilibrium to the environment. Stimulating learning from conflicts and crises means the professional or practitioner can question the origins and causes of a conflict on a meta-level. Furthermore the professional or practitioner can differentiate between environmental coincidences and true causes of a conflict or crisis, learn from them and encourage the team to do the same, so that they cope better with similar situations in the future.

Measures

- Restores the team environment
- Motivates the team to acknowledge and learn from their own part in the conflict
- Uses conflicts in a positive way to progress
- Strengthens the team cohesion and solidity with regard to potential future conflicts and crises

4.4.8 Resourcefulness

Definition: Resourcefulness is the ability to apply various techniques and ways of thinking to defining, analysing, prioritising, finding alternatives for and dealing with or solving challenges and problems. It often requires thinking and acting in original and imaginative ways and stimulating the creativity of professional or practitioner and the collective creativity of the team. Resourcefulness is useful when risks, opportunities, problems and difficult situations arise.

Purpose: The purpose of this competence element is to enable the professional or practitioner to effectively handle uncertainty, problems, changes, limitations and stressful situations by systematically and continuously searching for new, better and more effective approaches and/or solutions.

Description: Resourcefulness is about making optimal use of what to work with. It is not just about creating something new; it also applies to making existing things work better, faster or cheaper. The individual acquires capable resources and foster an attitude of resourcefulness within the team to stimulate, evaluate and act upon ideas that can benefit the process, results or goals. Ideas must often be 'sold' to the team before they are accepted. A team atmosphere that is open to creativity and innovation is a prerequisite for acceptance. Others in the team will then often champion the idea and refine it so that it gains greater acceptance.

Resourcefulness is one of the prime competences for project success. Resourcefulness helps to overcome problems and motivates the team to work together in developing the idea into a workable solution. Creativity must be used with care in the project team, so that the focus on realising the agreed results of the project is not lost. Conceptual and analytic techniques are also of utmost importance to deal with the information overflow that many projects and organisations face. Being able to extract, present or report the right information in a timely manner is crucial for success.

Knowledge

- Techniques to solicit views of others
- Conceptual thinking
- Abstraction techniques
- Strategic thinking methods
- Analytic techniques
- Convergent and divergent thinking
- Creativity methods
- Innovation processes and techniques
- Coping methods
- Lateral thinking
- Systems thinking
- Synergy and holistic thinking
- Scenario analysis
- SWOT technique
- PESTLE analysis
- Creativity theories
- Brainstorming techniques e.g. lateral thinking
- Converging techniques (comparative analysis, interview techniques)

Skills

- Analytical skills
- Facilitating discussions and group working sessions
- Choosing appropriate methods and techniques to communicate information
- Thinking 'outside the box' – new ways of doing things
- Imagining an unknown future state
- Being resilient
- Dealing with mistakes and failure
- Identifying and seeing different perspectives

Related competence elements

- All other people CEs
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 10: Plan and control
- Practice 11: Risk and opportunity

Key Competence Indicators

4.4.8.1 Stimulate and support an open and creative environment

Description: The professional or practitioner creates a work environment that encourages people to share their knowledge and contribute their ideas and opinions. To stimulate and support creativity and innovation, the professional or practitioner needs to be open to original and imaginative ways to overcome obstacles. These may include new products, processes or procedures or could involve revising specific tasks or roles and responsibilities. The professional or practitioner can make others feel they are welcome to express themselves, so that the project can benefit from their input, suggestions, ideas and concerns. This is necessary as a means of benefiting from others' knowledge and experience. Since in every project professionals with various backgrounds and abilities have to work together, openness is important. Most of the team members have an area of expertise where they are more knowledgeable than the individual. The relationships in the team are built on mutual respect, trust and reliability. So the professional or practitioner should regularly ask people for their input and show willingness to understand and possibly adopt their ideas. Of course there is a time and place for everything, so the professional or practitioner should also make clear when there is time for creative input and when not.

Measures

- Encourages people to share their knowledge and contribute their opinions
- Stimulates and supports creativity when appropriate
- Uses and stimulates original and imaginative ways to overcome obstacles
- Seeks input from others and shows willingness to consider and/or adopt their ideas
- Considers the perspectives of others

4.4.8.2 Apply conceptual thinking to define situations and strategies

Description: Every project is a unique effort to create something new. Except in the most simple projects, this requires the abilities of abstraction and conceptualisation, that is, of breaking down or reducing the subject in question (be it an outcome, plan, requirement, risk, situation or problem) into smaller parts and integrating these into new and useable ideas. The professional or practitioner must apply conceptual thinking, and also leverage able team members. Conceptual thinking also means bearing in mind that problems regularly have multiple causes that relate to each other within a general context, and that different ways of solving problems have different effects on other parts, both in and outside the project.

Measures

- Uses or promotes conceptual thinking when appropriate
- Knows that problems often have multiple causes and that solutions often have multiple effects

- Applies systemic thinking

4.4.8.3 Apply analytic techniques to analysing situations, financial and organisational data and trends

Description: The professional or practitioner is able to analyse (or delegate the analysis of) complex situations or problems and find solutions and alternatives. The professional or practitioner can also analyse and derive useful information and trends from complex sets of data and present or report the findings clearly. Analytical dexterity means having different methods at disposal for detecting a problem's actual causes and implementing or proposing the correct measures to solve it.

Measures

- Applies various analytic techniques
- Analyses problems to detect causes and possible solutions
- Analyses complex sets of data and extracts relevant information
- Clearly reports and presents data conclusions, summaries and trends

4.4.8.4 Promote and apply creative techniques to find alternatives and solutions

Description: Creative techniques should be used to identify solutions. These techniques can be divided into 'diverging' techniques and 'converging' techniques. When problems arise, the professional or practitioner needs to judge whether a creative approach is appropriate or not. Where a creative approach is appropriate, the professional or practitioner needs to decide which methods to use.

After the problem or issue is defined (possibly by using conceptual thinking and/or analytic techniques) there follows a diverging creative stage, to gather possible solutions. A brainstorming session may be appropriate, where members of the team and others in the organisation who might be able to contribute meet to have their ideas captured. Other muchused techniques include mind mapping, storyboarding, visualising, etc. Whatever method is used in finding a creative solution, it involves looking at the issue from different perspectives, combining tools, knowledge, common sense, intuition and experience and applying them. In the following, more analytic, converging stage, possible solutions and their effect on the problem or issue in question are analysed. Converging techniques include weighted selection, forcefield analysis, etc. The most promising ideas are then further refined and finally the best concepts/solutions are chosen.

Measures

- Uses creative techniques when appropriate
- Applies diverging techniques
- Applies converging techniques
- Engages multiple views and skills
- Identifies interdependencies

4.4.8.5 Promote a holistic view of the project and its context to improve decision-making

Description: To promote holistic views means considering a current situation in relation to the full context of the project, such as the enterprise strategies, concurrent activities and/or projects. The individual uses multiple perspectives to judge and deal with situations. The professional or practitioner recognises the significance of details and can separate the details from the bigger picture. The professional or practitioner understands the connection between the situation and its context and can

make or promote decisions based on understanding of a wide array of influences, interests and possibilities. The professional or practitioner is also able to explain these holistic views to others, both inside and outside the project.

Measures

- Demonstrates holistic thinking and can explain the bigger picture
- Uses multiple perspectives to analyse and deal with the current situation
- Makes connections between the project and the larger context and takes appropriate action

4.4.9 Negotiation

Definition: Negotiation comes from the Latin *neg* (no) and *otia* (leisure) referring to businessmen who, unlike the patricians, had no leisure time in their industriousness; it held the meaning of business (*le négoce* in French) until the 17th century when it took on the diplomatic connotation as a dialogue between two or more people or parties intended to reach a beneficial outcome over one or more issues where a conflict exists with respect to at least one of these issues. Thus, negotiation is a process of combining divergent positions into a joint agreement under a decision rule of unanimity.

It is aimed to resolve points of difference, to gain advantage for an individual or collective, or to craft outcomes to satisfy various interests. It is often conducted by putting forward a position and making concessions to achieve an agreement. The degree to which the negotiating parties trust each other to implement the negotiated solution is a major factor in determining whether negotiations are successful. People negotiate daily, often without considering it a negotiation. Negotiation occurs in organizations, including businesses, non-profits, and within and between governments as well as in sales and legal proceedings, and in personal situations such as marriage, divorce, parenting, etc. Professional negotiators are often specialized, such as union negotiators, leverage buyout negotiators, peace negotiator, or hostage negotiators. They may also work under other titles, such as diplomats, legislators, or brokers.

Negotiation is the process between two or more parties that aims to balance different interests, needs and expectations in order to reach a common agreement and commitment while maintaining a positive working relationship. Negotiation includes both formal and informal processes such as buying, hiring or selling or regarding requirements, budget and resources in projects.

Purpose: The purpose of this competence element is to enable the professional or practitioner to reach satisfactory agreements with others by using negotiation techniques.

Description: Agreements are based on positions that will satisfy the interests, needs and expectations of all parties. Negotiations can be political or commercial, and can often entail reaching compromises that do not leave all parties very satisfied. Interests, needs and expectations often involve emotions and feelings as well as facts, and the full picture may not be easy to identify. The negotiating process is often influenced by the relative power of the parties, and by situational factors that may be called 'leverage'.

Negotiators need to research these issues and, when full information is not available, make assumptions about them. Successful negotiation is facilitated by developing a number of options, each of which has the potential to satisfy different interests, needs and expectations. Negotiation may involve the use of different techniques, tactics and strategies.

Knowledge

- Negotiation theories
- Negotiation techniques
- Negotiation tactics
- Phases in negotiations
- BATNA (best alternative to a negotiated agreement)
- Contract templates and types
- Legal and regulatory provisions associated with contracts and agreements
- Analysis of cultural aspects and tactics

Skills

- Identification of the desired outcomes
- Assertiveness and drive to reach desired outcomes
- Empathy
- Patience
- Persuasion
- Establishing and maintaining trust and positive working relationships

Related competence elements

- All other people CEs
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 9: Procurement
- Practice 10: Plan and control

Key Competence Indicators

4.4.9.1 Identify and analyse the interests of all parties involved in the negotiation

Description: Understanding the priorities of the parties to the negotiation is a prerequisite to generating a successful outcome. The professional or practitioner leading or participating in the negotiations should begin by gathering hard and soft information about interests, needs and expectations of all parties by whatever means are available. Analysis of this information should reveal both priorities and gaps for further research. Priorities of other parties may often have to be assumed.

Measures

- Knows and reflects own interests, needs and constraints
- Gathers and documents relevant hard and soft information about interests, needs and expectations of all parties involved
- Analyses and documents available information to identify own priorities and likely priorities for other parties

4.4.9.2 Develop and evaluate options and alternatives with the potential to meet the needs of all parties

Description: The professional or practitioner identifies trade-offs, options and alternative negotiation solutions. They are developed during the preparation for negotiation and may be modified during the negotiations as opportunities emerge and the situation changes. The trade-offs, options and alternatives should be tuned to the interests of the negotiating parties, to be useable during the negotiation process. A best alternative to a negotiated agreement (BATNA) should also be identified.

Measures

- Identifies trade-offs, options and alternative solutions based on the analysis of interests, needs and priorities of all parties
- Proposes the right option at the right time in the right way

4.4.9.3 Define a negotiation strategy in line with own objectives that is acceptable to all parties involved

Description: The negotiation strategy focus on what the professional or practitioner thinks is essential for a successful outcome. Before starting the negotiation, the professional or practitioner must select the strategy, techniques and tactics that will enable him or her to reach an optimal outcome for the project. The strategy may depend upon factors such as the power balance between the parties, the stakes involved, budgetary conditions, politics, cultural aspects, and the capability of the negotiators. The selected strategy should be appropriate to the interests of the project and not detrimental to relations with the stakeholders involved. The professional or practitioner should also consider secondary strategies that cover 'what if' scenarios. The strategy also includes who the negotiators will be and what will be their mandate⁴ Professional or practitioner working in project management (negotiation scope, freedom, roles and responsibilities). In some cases a choice is also possible about the other party and/or negotiation scope (with whom to negotiate over what). This option should be carefully considered, as this choice might have negative or positive repercussions later on.

Measures

- Identifies possible negotiation strategies in order to achieve the desired outcome
- Identifies secondary strategies and alternative options to address 'what if' scenarios
- Selects a negotiation strategy and can explain why it has been chosen
- Analyses and selects negotiation techniques and tactics to support the desired negotiation strategy
- Identifies key parties to participate in the negotiation and clearly articulates their mandate

4.4.9.4 Reach negotiated agreements with other parties that are in line with own objectives

Description: An agreement is reached through negotiation using the identified strategies, tools and tactics with-out alienating the other parties involved. Negotiation may occur over an extended timeframe and may proceed in phases. A satisfactory agreement is one in which all parties are reasonably satisfied with the result, will honour their commitments, think the other parties negotiated fairly, and feel respected and will negotiate again. If an agreement is not achievable or the possible outcomes are not acceptable, the BATNA is implemented.

The best possible solution is often one that is sustainable and provides the best long-term results for all parties. There may be specific situations where this is not possible or preferable and a compromise may be required to meet one's desired outcome. In many situations, the agreed out-comes are documented for future reference.

Measures

- Negotiates using techniques and tactics appropriate to the circumstances to achieve the desired outcome
- Negotiates to achieve a sustainable agreement
- Demonstrates patience and drive to realise a sustainable agreement
- Implements BATNA if a sustainable outcome is not possible

- Documents the outcomes of the negotiation

4.4.9.5 Detect and exploit additional selling and acquisition possibilities

Description: The professional or practitioner is constantly striving to realise the processes and agreed outcomes faster, better and/or cheaper. This means that the professional or practitioner has to have a keen eye for opportunities to realise this aim. Depending on the situation, this may for instance mean searching for new suppliers or renegotiating old agreements, looking for ways to offer services to new clients, negotiating better conditions with stakeholders or inviting teams or team members to realise tasks sooner, better and/or cheaper. Negotiating will occur after the new opportunities are identified. The desired state should be seen in the light of the best interests of the project and the organisation. Is the organisation best served with the present situation or with efforts to improve it? In considering this, the professional or practitioner is aware that negotiations also take up time and effort and that present relations with negotiation partners may be affected.

Measures

- Seeks ways to deliver the agreed outcomes sooner, better and/or cheaper
- Weighs alternatives to the current situation and agreements
- Considers the impact of alternatives on current relations

4.4.10 Results Orientation

Definition: Results orientation is the critical focus maintained by the professional or practitioner on the outcomes of the project. The professional or practitioner prioritises the means and resources to overcome problems, challenges and obstacles in order to obtain the optimum outcome for all the parties involved. The results are continuously placed at the forefront of the discussion and the team drives toward these outcomes. One critical aspect of results orientation is productivity, which is measured as a combination of effectiveness and efficiency. The professional or practitioner needs to plan and deploy resources efficiently to realise the agreed results and be effective.

Purpose: The purpose of this competence element is to enable the professional or practitioner to focus on the agreed outcomes and drive towards making the project a success.

Description: Most of the work in the life of projects deals with the definition and management of tasks and the resolution of smaller or bigger problems. In this definition, choices have to be made repeatedly, about priorities, allocation, to-be-used techniques, etc. Results orientation eases these choices by defining a basic criterion: 'Will the present work realise the desired results or make the process faster, cheaper and/or better?'

Results orientation means focusing the attention of the professional or practitioner and the team on key objectives to obtain the optimum outcome for all the parties involved. The professional or practitioner has to ensure that the agreed outcomes satisfy the relevant stakeholders. This also applies to any changes agreed during the life of the project. While focusing his or her attention on the outcomes, the professional or practitioner still needs to maintain an awareness of and react to any ethical, legal or environmental issues that affect the project. Results orientation also includes focusing the team and relevant stakeholders on delivering the requested outcomes, including identifying problems, using techniques to locate their causes and to find and implement solutions.

To deliver the outcomes required by and agreed with the relevant stakeholders, the individual must find out what the different participants in the project would like to get out of it for them-selves. The professional or practitioner must manage the deployment and development of the team members taking their expectations into account.

Knowledge

- Organisation theories
- Efficiency principles
- Effectiveness principles
- Productivity principles

Skills

- Delegation
- Efficiency, effectiveness and productivity
- Entrepreneurship
- Integration of social, technical and environmental aspects
- Sensitivity to organisational do's and don'ts
- Management of expectations
- Identifying and assessing alternative options
- Combining helicopter view and attention to essential details
- Total benefit analysis

Related competence elements

- All other people CEs
- Perspective 1: Strategy
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 6: Quality
- Practice 10: Plan and control
- Practice 11: Risk and opportunity
- Practice 12: Stakeholders

Key Competence Indicators

4.4.10.1 Evaluate all decisions and actions against their impact on project success and the objectives of the organisation

Description: In everything the professional or practitioner does, he or she is guided by the goal of the project, which is to achieve success. This goal underpins all the individual's decisions and actions. Every choice may have negative or positive repercussions later on, so it needs to be carefully considered. The professional or practitioner will judge new developments by the following criteria: 'Will this realise (or threaten) the objective or result, or make the process faster, cheaper and/or better, and so more of a success?'

Measures

- Considers the objectives and agreed outcomes of the project as leading all actions
- Formulates own goals based on the objectives and outcomes

- Derives the strategy of the project from the goals
- Judges all decisions and actions by their impact on the success of the project

4.4.10.2 Balance needs and means to optimise outcomes and success

Description: Every choice entails allocating or denying means (resources, money, time, attention) to certain actions (tasks, decisions, questions, problems, etc.), based on perceived needs. In order to optimise means allocation the professional or practitioner must have a clear picture of the priorities of the project. Based on that, the professional or practitioner must prioritise the various needs and balance the allocation of means based on the priorities. This may mean giving no attention or means (now) to perceived challenges or problems, as the professional or practitioner judges other needs to have more priority.

Measures

- Assesses and prioritises various needs
- Explains why certain actions get more priority
- Uses the results orientation as a means to say 'no' (and explain why)

4.4.10.3 Create and maintain a healthy, safe and productive working environment

Description: Ensuring a healthy, safe and productive working environment means providing the team with all means and limiting distractions for the team, so that they can focus on working efficiently. The professional or practitioner acts as a filter and a buffer between the environment and the team members to absorb uncertainties and ambiguities that could disturb the progress and their results orientation. In addition, the professional or practitioner facilitates the team with the necessary infrastructure and resources.

Measures

- Shields the team from outside interference
- Creates healthy, safe and stable working conditions
- Provides a clear set of work for team members to operate on
- Provides the necessary resources and infrastructure

4.4.10.4 Promote and 'sell' the project, its processes and outcomes

Description: The professional or practitioner often has to act as an ambassador and advocate for the project, explaining the why, how and what (its objectives, approach, processes and agreed outcomes) to all concerned parties. The promotion reinforces the results orientation by making clear the outcomes and the need for the outcomes. This can be done by regular reporting and stakeholder engagement, but at least as often is achieved by formal and informal communication and marketing, varying from coffee-corner talks with team members to formal presentations. This marketing or 'selling' the project is part and parcel of every communication made by the individual. The professional or practitioner preferably also invites team members, the project owner and others to join in the marketing effort.

Measures

- Defends and promotes the objectives, approach, processes and agreed outcomes
- Seeks openings and venues to promote the project
- Invites others to join in with marketing the project

4.4.10.5 Deliver results and get acceptance

Description: The litmus test of every professional or practitioner is whether they can deliver, or realise what was promised, to get results. This quality requires a clear resource plan, planned outcomes, a strong belief in personal capacity and that of the team to overcome obstacles and problems, plus the overarching desire to deliver. The professional or practitioner knows that being effective is not the same as being efficient. Effectiveness is realising the planned goals (e.g. realising the agreed outcomes within agreed deadlines, budget, quality, etc.), while efficiency is doing so with the least necessary cost and time (measured, for instance, by comparing the planned number of people against actuals). Therefore the professional or practitioner needs to constantly search for means to realise the agreed results faster, cheaper or better. Finally, the professional or practitioner needs to be able to rally people to the cause while keeping to the planned level of productivity, knows what the professional or practitioner can and cannot do (and get away with) in a specific situation and organisation and what is politically appropriate.

Measures

- Differentiates the concepts of efficiency, effectiveness and productivity
- Plans and sustains planned levels of efficiency, effectiveness and productivity
- Demonstrates the ability to get things done
- Focuses on and shows continuous improvement
- Thinks in solutions, not in problems
- Overcomes resistance
- Recognises limitations to getting results and addresses these shortcomings

4.5 Practice

The competence area 'practice' deals with the core project competences. It defines thirteen competences:

- Project design
- Requirements and objectives
- Scope
- Time
- Organisation and information
- Quality
- Finance
- Resources
- Procurement
- Plan and control
- Risk and opportunities
- Stakeholder

4.5.1 Project design

Definition: Design describes how the demands, wishes and influences of the organisation(s) are interpreted and weighed by the individual, and translated into a high-level design of the project to ensure the highest probability of success. Derived from this outer context, design drafts how resources, funds, stakeholders' objectives, benefits and organisational change, risks and opportunities, governance, delivery, and priorities and urgency are all considered in the way the project is set up and laid out in a 'charcoal sketch', a blueprint or an overall architecture; and how the project should be managed.

Because all outer factors and success criteria (and/or the perceived relevance of these) often change over time, this design needs to be evaluated periodically and, if necessary, adjusted.

Purpose: The purpose of this competence element is to enable the professional or practitioner to successfully integrate all contextual and social aspects, and derive the most advantageous approach for a project to ensure buy-in and success.

Description: Design addresses the development, implementation and maintenance of an approach that best serves the organisational objectives and takes into account all formal and informal factors that help or hinder the corporate goals, and the success or failure of the specific project. Design includes taking into account the intent, governance, structures and processes, relevant standards and regulations, cultural aspects, and personal and group interests in the organisation (or organisations) and the wider society. In selecting the choice for the approach, lessons learned from other projects within the organisation, the industry or from outside, and the specifics of this project, also play an important role.

Design addresses a broad range of aspects, including governance and decisionmaking, reporting and resources, as well as meeting standards and regulations, and complying with cultural norms and values (within the organisation and the wider society). Aspects such as perceived benefits, motivation, team and stakeholder communication, etc. have also to be taken into account. Defining these objectives, factors and criteria distinctly and clearly is a major requirement from the outset and during the execution of the project. This activity results in a thoroughly situational high-level sketch that will later be translated into specific actions that should lead to success for the project.

The chosen approach also includes the management and control philosophy. The architecture reflects rhythm, balance and commitment, and provides guidance to the component tasks and their place in the project. The selection of the approach and the design activities have to be performed before jumping into planning, organising and executing the project. Furthermore, during the project's life cycle this chosen approach should be regularly 're-thought' and challenged, as circumstances change both from within the project and from the larger context.

Knowledge

- Critical success factors
- Success criteria
- Lessons learned
- Benchmarking
- Complexity
- Project, programme and portfolio success
- Project, programme and portfolio management success
- Project, programme and portfolio management tools
- Leadership styles
- Strategy
- Triple constraint (iron triangle)
- Performance management
- Organisation project design rules and methodologies
- Specific methodologies related to line of business and context
- Organisational models, e.g. contingency theory
- Theory of Change

Skills

- Contextual awareness
- Systems thinking
- Result orientation
- Improvements by/incorporation of lessons learned
- Structure decomposition
- Analysis and synthesis

Related competence elements

- All other practice CEs
- All perspective CEs
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

4.5.1.1 Acknowledge, prioritize and review success criteria

Description: Success criteria are measures that stakeholders use to rate and judge the success of the project. These criteria can be both formal and informal. Formal criteria address the stated objectives of the project. To achieve these goals and objectives within the agreed constraints (e.g. strategic goals, tactical and operational objectives) is one, but just one, part of project success. Informal criteria by which interested parties evaluate the outcome are also important.

These factors may include the true reasons why a project is started, supported, thwarted or ended. Success criteria also address the interaction with the larger context – personal or group interests that are influenced by the project or its result, depending on how a project supports or conflicts with other projects and programmes, activities, goals, resources, etc. The professional or practitioner collects, acknowledges, prioritises and completes both formal and informal success criteria for the project. Not only the formal criteria, but also the informal ones, need to be taken seriously by the individual, as they will significantly influence the willingness of interested parties to support and cooperate with the project and so directly influence its success.

The success criteria play a crucial role in defining the approach. For instance, if the main criterion is the quality of the end product, quality processes, quality reviews and assurance and quality consideration will play an important role in the chosen approach. This approach would differ substantially from a project with the focus on time (speed of delivery), or budget. Success factors are elements that professional or practitioner can incorporate into their project to increase the likelihood of meeting the success criteria and achieving a successful outcome.

These factors may come from very different sources and take different shapes; they vary from using (or avoiding) specific tools, methods or techniques, selecting specific resources, organisation setup, stages, reporting and communication means and styles, quality methods, etc.. During the course of every project the relative importance of success factors and criteria may change, due to contextual or social aspects and the dynamics of the project itself. Therefore the professional or practitioner periodically checks and assesses the actuality and relative importance of the success criteria and – when necessary – makes

due changes in the approach in order to attain success. These changes may even include advising the organisation to prematurely end the project.

Measures

- Identifies, classifies, evaluates and prioritises influences from each of the five perspective aspects relevant for success
- Recognises and assesses both formal and informal influencing elements
- Evaluates and prioritises success criteria from each of the five contextual aspects
- Acknowledges and assesses both formal and informal success criteria
- Acknowledges and uses relevant success factors
- Performs periodic re-assessments of the relevance of success criteria
- Performs periodic re-assessments of the relevance of success factors

4.5.1.2 Review, apply and exchange lessons learned from and with other projects

Description: At the start of the project, the professional or practitioner gathers lessons learned from previous projects (both from his or her own organisation(s) and from the wider community, including research and benchmarks) and applies relevant lessons in the present project. Periodically and at the end of the project, the professional or practitioner (with the team and relevant stakeholders) evaluates the approach and gathers lessons learned from the current project. They shall be shared within the organisation. The professional or practitioner knows and uses the different methods and tools for distributing lessons learned in the organisation (e.g. strategic project office, knowledge base, internal social net-work, etc.).

Measures

- Acknowledges and gathers lessons learned from previous projects
- Applies relevant lessons learned
- Acknowledges and uses research and benchmarking methods for improving the performance of the project
- Identifies and shares lessons learned from the project with the organisation

4.5.1.3 Determine complexity and its consequences for the approach

Description: To properly select an appropriate approach, the professional or practitioner has to take into account the specific complexity of the project the complexity of the agreed outcomes and/or of the project processes required. The complexity may have many causes and sources. It may be that the outcomes or necessary internal processes of the project are innovative, technically complex and/or strongly intertwined. It may be that the project involves many teams, people, suppliers, dependencies, etc. It may be that the context of the project is complex, for instance many stakeholders with varying interests; many interfaces with other processes, projects, programmes, etc. Timelines may be short, budgets limited, outcomes crucial for the organisation, etc. All these internal and external factors have to be taken into account by the professional or practitioner because they play an important role in defining the optimal approach for the project.

Measures

- Identifies the level of complexity of the project by applying appropriate methods
- Acknowledges complexity-enhancing aspects
- Identifies and defines the impact on complexity of specific processes, constraints or outcomes
- Identifies and assesses the impact on complexity of specific external and internal parameters

- Assesses and applies complexity-diminishing measures

4.5.1.4 Select and review the overall project management approach

Description: At the very beginning of the project, the professional or practitioner chooses an approach that has the highest probability of success, given the constraints of contextual influences and demands, complexity of the project, lessons learned, known success criteria and available success factors. The approach may contain a vision (main principles), and an architecture for the project to reach success. This approach may include a high-level definition (or modification) of scope, quality aspects, organisation, communication, documentation, planning and stakeholder approach, choice of resources, risk tolerance, management and performance criteria, etc. The professional or practitioner reviews the approach periodically, because many of the contextual and social influences may change over the life cycle of the project.

Measures

- Assesses and appraises various possible approaches
- Selects an approach for the project that has the highest chance of leading to success
- Explains and defends the chosen approach and its relation to the success of the project
- Explains the main effects of the chosen approach on the organisation of the project
- Explains the main effects of the chosen approach on the parent organisation
- Periodically re-evaluates the chosen approach based on contextual and internal developments
- Makes necessary changes to the approach and explains why these were made

4.5.1.5 Design the project execution architecture

Description: Based on the selected approach, the professional or practitioner draws a high-level 'charcoal sketch', a blueprint or even architecture for the project. This high-level plan will be detailed later via formalised plans, but the basic design only considers the essential choices (such as make or buy, waterfall or iterative, internal resources or external, what tools and methods to use, etc.) and the consequences of each choice for success. These choices made by the professional or practitioner also include the best way to lead the project. Project management success is an essential part of, and prerequisite for, project success. This may mean, given some circumstances, choosing a strong profile as leader, or, given other criteria, act as 'first among equals' towards the team or the stakeholders. Often this choice will vary with circumstances and environments and/or the phase the project has reached. In the course of the project the professional or practitioner periodically evaluates (aspects of) the design, taking into consideration the development and progress of the project, changing contextual influences and demands, known success criteria and available success factors. This often leads to minor or major changes in the chosen execution architecture.

Measures

- Establishes the project execution architecture with outcomes
- Defines the business rules and control philosophy
- Monitors the project against the architecture components
- Updates the architecture based on changes

4.5.2 Requirements and objectives

Definition: Every project is undertaken because internal and external stakeholders want to achieve something. This competence element describes the 'why' of the project – which goals are to be

achieved, which benefits are to be realised, which objectives are to be reached and which stakeholders' requirements are to be fulfilled. They are derived from needs, expectations, requirements and strategic organisational goals from the stakeholders.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish the relationship between what stakeholders want to achieve and what the project is going to accomplish.

Description: The professional or practitioner will come across many definitions regarding goals, objectives, benefits, effects, deliverables, value, requirements, output and outcome and how they relate to each other. They all present different views of the bridge between what stakeholders want to achieve and what a project is going to deliver.

The professional or practitioner is aware of this and will clearly define, for the purpose of the project, what is needed in order to answer the 'why-how-what-when-who-where-and for whom...' questions. The professional or practitioner will embark on a process with all stakeholders to come to a good definition of what the project is going to achieve for them. These then have to be transformed into clearly defined outputs and deliverables of the project, which again are communicated back to stakeholders in order to define and manage expectations. This process is conducted iteratively.

Changes to both the stakeholders' views and the project's outputs and outcomes will occur, requiring regular updates. This process is therefore executed initially, and will be repeated on a regular basis. Communication, negotiation and analytical skills are crucial. In order to achieve balance between stakeholders, the use of workshops instead of one-on-one interviews is very common. Stakeholders' needs and requirements need to be elicited and prioritised, clearly defining what the project will have to realise, and for what reasons.

Knowledge

- Temporary and permanent organisation
- Expectations, needs and requirements
- Project charter
- Project sponsor (owner)
- Fit for use, fit for purpose
- Value management
- Acceptance criteria
- Benefits mapping
- Goal analysis
- Strategy setting

Skills

- Corporate strategy
- Stakeholder relations
- Knowledge elicitation
- Workshop facilitation
- Interviewing
- Formulation of objectives (e.g. SMART-method)
- Synthesis and prioritisation

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

4.5.2.1 Define and develop the project goal hierarchy

Description: Every project is started because of needs and goals of the organisation. From these organisational goals the project goals are derived: high-level statements that provide the rationale and overall context for what the project is trying to achieve. In their turn, from these project goals, the project objectives are derived: lower level statements that describe the specific, tangible products and deliverables that the project will deliver. This goal hierarchy is influenced and determined both by contextual factors and by elements such as specific stakeholder needs and requirements. The project mission statement explains the strategic reasons for starting this project. Secondly the project objectives are defined, which are to realise the project outcomes within the constraints of acceptable risk, agreed timeframes and budget. A third category of goals is potential positive side effects (consequential benefits). Examples include gaining new knowledge, strengthening relations, and experience with outsourcing.

Measures

- Establishes the relationship between the organisational and project goals
- Establishes the relationship between the project goals and objectives
- Defines a goal hierarchy for the project
- Explains the relevance and content of the goal hierarchy

4.5.2.2 Identify and analyse the project stakeholder needs and requirements

Description: To be competent in identifying stakeholder needs and requirements requires knowledge of, and communication with, the permanent organisation and stakeholders including customers and end users. Needs and expectations are not the same as stated requirements; often needs are not formulated, for instance because they are obvious, not conscious, or hidden. As far as possible, needs should become explicit and be translated into requirements. These requirements have to be analysed, for instance using value management techniques.

Measures

- Knows the difference between need, expectations and requirements
- Identifies and documents stakeholder needs and requirements
- Establishes the structures for traceability of deliverables back to requirements
- Analyses stakeholder needs and requirements

4.5.2.3 Prioritise and decide on requirements and acceptance criteria

Description: After analysis, the requirements have to be prioritised. Priorities are determined by the project sponsor (owner), top managers or external customers. The methods for documenting the requirements must be defined; e.g. a requirement specification which can be more or less detailed or a product-backlog containing user stories. Requirements should be translated into acceptance criteria against which the deliverables can be tested.

Measures

- Prioritises stakeholder needs and requirements
- Documents and agrees on stakeholder needs and requirements
- Supports and oversees the translation of requirements into acceptance criteria

4.5.3 Scope

Definition: Scope defines the specific focus or content of the project. It describes the outputs, outcomes and benefits and the work required to produce them. It also deals with the counterpart: describing what is not contained in or part of the project. In essence, scope defines the boundaries of the project.

Purpose: The purpose of this competence element is to enable the professional or practitioner to acquire insight into what the boundaries of the project scope are and to manage this scope; and to understand how scope influences (and is influenced by) decisions regarding the management and execution of the project.

Description: Scope covers the process of understanding, defining and managing the specific content of the project. However, what lies outside the project's scope may also need to be defined? Scope defines all boundaries – which are often crucial to understanding and making decisions about what is part of the project and what is not. In the case of projects, scope covers the definition of the project deliverables, the creation of a scope defining structure (work breakdown structure) and, derived from this, the definition of work packages. Scope also includes the development of scope configuration control to ensure and support the continuous management of the scope. Monitoring and controlling the scope configuration may for some projects reduce the risk of unintended scope creep. Most projects operate in a dynamic environment and consequently scope will not be static. To ensure continuing relevance to the permanent organisation, a sustainable scope is maintained through ongoing monitoring and controlling of the needs, desires and expectations of (key) stakeholders.

Knowledge

- Configuration management
- Hierarchical and non-hierarchical structures
- Planning packages
- Scope definition (with exclusions)
- Scope gathering methodologies, e.g. use case scenarios, history writing
- Scope creep
- Constraints
- Deliverable design and control methods
- Work breakdown structure (WBS)
- Product breakdown structure (PBS)
- Work packages
- WBS dictionary

Skills

- Scope configuration
- Prioritisation
- Defining a WBS
- Defining a PBS
- Using a WBS dictionary
- Agile development

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators**4.5.3.1 Define the project deliverables**

Description: The project deliverables are the tangible and intangible assets (results, services, outputs) of the project by means of which the expected effects and benefits are to be realised. Moreover, the project deliverables are the measurable results by which the project management success is judged. A deliverable is a tangible or intangible object produced as a result of the project that is intended to be delivered to a customer (either internal or external). The goal hierarchy, mentioned and dealt with in competence element 'requirements and objectives', is extended and completed here. The project deliverables and sub-deliverables are placed in the bottom section of the hierarchy. In the graphical presentation of the hierarchy, lines are drawn between goals and deliverables to indicate links and interrelations.

Measures

- Defines the project deliverables
- Knows and explains the difference between goals and deliverables
- Organises the goals and the associated deliverable(s)
- Knows and uses the goal hierarchy and its purpose

4.5.3.2 Structure the project scope

Description: Structuring the scope entails a systematic division of the entire project content into sub-tasks and work-elements. This project structure or work breakdown structure (WBS) includes an overall division followed by sub-divisions. A graphical presentation of the WBS is typically a tree-structure with a number of stepwise divided sub-levels depending on the desired level of details of task or work elements. Various principles can be used for creating the WBS. One principle is that the overall structure reflects all the sub-products necessary to deliver the project results such as analysis, design, development and testing. Another principle for structuring the scope may reflect the different functional or physical structures of the project results. Irrespective of the approach, structuring the project scope is a valuable way of creating an overview of the project content. Clarifying and structuring the scope

may therefore also be relevant with an iterative (e.g. agile) approach, although the level of detail in the work breakdown structure is typically not as deep as with a linear or sequential approach.

Measures

- Knows and explains the purpose and benefits of a scope defining structure
- Knows and applies the principles for creating the work breakdown structure (WBS)
- Explains the differences between different principles of the WBS
- Explains the characteristics of project boundaries and can give examples
- Argues for why and when a full WBS may be inappropriate with an iterative (agile) approach to the project

4.5.3.3 Define the work packages of the project

Description: All the lowest elements in the WBS represent a work package with well-defined boundaries. In essence, clear boundaries are indeed the overall success criterion of an effective work break-down structure. The definition of a work package includes a description of the work to be performed, the work objectives, cost, resource need and duration. If the duration, cost and/or resource need is not yet clear, it is named a planning package. With an iterative (e.g. agile) approach, a work package in a software development project is typically referred to as a user-story. The same guide-lines may apply to the definition of a user-story as to a work package. Control-accounts are groups of work packages typically used for reporting.

Measures

- Defines work and planning packages
- Explains the purpose and benefits of (well) defined work packages
- Names and explains ways to define a work package

4.5.3.4 Establish and maintain scope configuration

Description: Scope configuration management helps minimise deficiencies, errors and unintended scope creep. Scope configuration management is meant to ensure that the scope is aligned with the agreed stake-holder needs and requirements, and that all resources assigned to the project are working with the same version of the product. Projects operate within a dynamic environment whereby changes occur and need to be captured and managed, as opposed to being treated as obstacles and as something hampering project success. A scope configuration mind-set is characteristic of an iterative (e.g. agile) approach to the project, and is value driven as opposed to plan or task driven. Scope configuration management is often a continuous process.

Measures

- Manages the scope configuration
- Defines roles and responsibilities related to scope configuration management
- Relates the dependency of scope configuration and the overall approach to the project (sequential or iterative)
- Compares progress and earned value against a baseline plan

4.5.4 Time

Definition: Time includes the identification and structuring of all components of a project in time in order to optimise the execution.

Purpose: The purpose of this competence element is to enable the professional or practitioner to define, sequence, optimise, monitor and control all components necessary to delivering the agreed outcomes of the project.

Description: The aim of time scheduling is to determine what activities need to be carried out when, in order to optimise the execution of the project. For projects, the activities or components include e.g. work packages and phases. In the case of projects, these activities have to be analysed and sequenced in time, their duration estimated and visualised in a schedule, and assigned to people or teams, to have them executed in optimal order.

Time also covers monitoring variances and deviations. Deviations in execution of the schedule, whether caused by external influences (changes in deliverables, requirements, scarcity of resources or money, etc.) or internal ones (e.g. late or off-spec deliveries) may require rescheduling. Periodically, the schedule should be compared with the baseline and, if necessary, adjustments made. With iterative planning, the schedule may be divided into time boxes with a certain length.

With each iteration, a certain sequence of activities (e.g. design, execution, test and implementation) may be defined. The overall project planning then focuses on the number of iterations and other activities (e.g. preparation, monitoring, etc.). Where there is uncertainty about the time-frame required for a particular phase or activity, a time 'buffer' or 'float' should be introduced into the schedule.

Knowledge

- Planning types
- Estimation methods
- Levelling
- Scheduling methods, e.g. Gantt chart, Kanban charts
- Resource allocation
- Network analysis
- Baselines
- Critical path planning
- Crashing the schedule
- Time boxing
- Phases
- Milestones
- Fast modelling and prototyping
- Spiral/iterative/agile development process

Skills

- Define activities from work packages
- Define dependencies
- Sequence components
- Estimate activity resources and duration

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations

- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

4.5.4.1 Define the activities required to deliver the project

Description: Based on an analysis of the deliverables and/or requirements, preferably through a work break-down structure, the activities necessary to achieve agreed results are defined. With iterative planning, the professional or practitioner focuses on defining only the activities necessary for the agreed deliverables of the current iteration.

Measures

- Defines activities related to the realisation of project deliverables
- Extracts activities from a WBS work package

4.5.4.2 Determine the work effort and duration of activities

Description: For each activity the work effort and duration necessary for realisation has to be determined. This includes determining what resources and resource competences, and how much, are required for each activity. When several resources (both material and personnel) are available, a balance has to be found between quality, cost and speed of delivery. This balance depends on the project success criteria and requirements.

Measures

- Determines work effort and duration of activities
- Identifies types of resources that may be required to perform an activity
- Identifies and decides between various resource options

4.5.4.3 Decide on schedule and stage approach

Description: Dependent on the chosen approach for the project (e.g. waterfall or iterative planning), a decision has to be made on the number, content, length and deliverables of the stages (or phases). The selection of a particular path very much depends on the specifics of the project – success criteria and requirements, guidelines in the organisation and other contextual factors, uncertainty, etc. For instance, higher uncertainties may lead to shorter phases.

Measures

- Knows different planning techniques
- Chooses the appropriate planning techniques
- Determines appropriate stages
- Knows the effects of uncertainty on planning and what to do to minimise the effects

4.5.4.4 Sequence project activities and create a schedule

Description: Many activities are dependent on availability or on previous realisation of other work packages or activities. Based on these known dependencies and the calculated duration of each activity, an activity flow can be defined. From this, the critical path can be calculated. This critical path may be

influenced by the availability of resources. The activity of levelling can optimise the assignment of resources in the planning, and may influence the critical path.

Measures

- Sequences a series of project activities
- Determines dependencies and dependent relationships
- Calculates the critical path
- Levels resource assignment for a given plan

4.5.4.5 Monitor progress against the schedule and make any necessary adjustments

Description: As soon as the planning is done and activities are started, control systems (such as time-writing systems and progress meetings) should be in place. Various methods, such as earned value analysis, can be used to measure realised progress versus baseline. A project plan may be subject to many disturbances, resulting in necessary adjustments. These may come from various sources (changes in deliverables, requirements, scarcity of resources or money or late or off-spec deliveries) and may demand re-planning. Periodically, the schedule should be compared against the baseline and, if necessary, adjustments should be made.

Measures

- Knows when and how to use various schedule control systems
- Applies planning adjustments in response to various types of disturbances
- Compares progress and earned value against a baseline plan

4.5.5 Organisation and information

Definition: Organisation and information includes the definition, implementation and management of the temporary project organisation. Organisation and information also includes the definitions of required roles and responsibilities as well as effective information exchange for the temporary organisation. This competence element also includes the creation and storage of documentation, reporting structures and the project internal communication flows.

Purpose: The purpose of this competence element is to enable the professional or practitioner to create a high performing temporary organisation, which also includes the inseparable link between organisational structure and communication processes.

Description: This competence element describes how the project is organised. The organisation and information competence embraces both human resources and associated communication processes. The organisation also covers the project's roles, responsibilities and mandates on the various levels. Usually, it (at least) distinguishes between the sponsor level, the project level and the level of components. It describes the (formal) information flows between these levels, so that each level is able to take the assigned responsibility and base decisions on high quality information. Usually, the sponsor level is accountable for the definition of the objective and scope of the project, and the project level is accountable for delivering quality outputs.

For all levels to achieve high quality decisionmaking, all levels should be supported by the right, timely, high quality information. The professional or practitioner is responsible for information quality, timeliness and flow. Internal information, documentation and communication are closely related to the management of the organisation and encompass identifying information needs, establishing the

required processes and information infrastructures and finally monitoring the internal and external information flow.

Knowledge

- Organisational models
- WBS as a base for project organisation
- Document management systems
- Information and documentation systems
- Information plan
- Regulatory requirements
- Information security
- Ways to organise governance for projects and programmes

Skills

- Involve/convince others
- Staffing of organisation
- Task delegation
- Management of interfaces to other parts of the organisation
- Dealing with project software tools in the office
- Preparation techniques for official documents
- Information management planning

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 6: Teamwork
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

4.5.5.1 Assess and determine the needs of stakeholders relating to information and documentation

Description: The professional or practitioner knows about the close link between information and organisation and that needs for information may also determine the need for specific organisational structures. For example, in organisations practising outsourcing with one or more virtual teams, the need for a high level of information is evident. Care must be taken in deciding who gets what information – overwhelming people with too much information must be avoided. Interested parties in general should receive only the information they need and in a suitable form. The professional or practitioner must discern the needs for formal and informal information/documentation. Knowing the corporate structures and processes will automatically outline part of the formal information and documentation

(specifications, plans, budgets, reports and more). It is the responsibility of the professional or practitioner to ensure that the information and organisational needs are defined.

Measures

- Assesses and documents the information and documentation needs of the project
- Establishes various modes of communication, including formal and informal
- Determines the project characteristics influencing the organisational needs

4.5.5.2 Define the structure, roles and responsibilities within the project

Description: The professional or practitioner can structure the temporary organisation in various ways and is aware of the influences from governance and contextual characteristics such as strategy, structures and processes, power and interest, standards and regulations, culture and values. Applied technologies, anticipated solutions, required competences and the geographical location of the participant will also have a high impact on the design of the organisational structure. The professional or practitioner knows about the advantages and disadvantages of different structures and is also capable of designing, staffing and implementing the temporary organisation. If necessary, an appropriate governance framework and structure will be established for the project, as well as for all subordinate projects (if any). As part of this framework, roles and responsibilities are clearly defined and decision-making authorities and delegation levels are also identified.

Measures

- Explains some fundamental ways to structure a temporary organisation
- Designs and develops a governance framework and structure
- Defines the responsibilities of the various key personnel on the project
- Identifies links to and interfaces with corporate governance arrangements
- Identifies and records the differences between the organisation's functional authorities and the project's authorities

4.5.5.3 Establish infrastructure, processes and systems for information flow

Description: The professional or practitioner knows how to establish communication processes including roles and responsibilities and all rules and guidelines for what internal information to communicate, and how. Additionally, appropriate systems and methods are implemented to support the governance arrangements. How to limit and/or prevent redundant information is a key success criterion for establishing efficient information processes, and information must be consistent and unambiguous. Information infrastructures cover the systems, means and methods required for documenting, storing and communicating the internal information. Information infrastructures and IT are inseparable in a modern organisation and consequently, being aware of the corporate IT systems and policies is important for the individual.

Measures

- Explains the purpose and contents of information processes
- Communicates internal information via various methods
- Ensures redundant information is limited and/or prevented
- Explains the benefits of different types of meetings
- Explains what is covered by an infrastructure for communication
- Establishes planning and control mechanisms (e.g. documentation of key decisions)

4.5.5.4 Implement, monitor and maintain the organisation of the project

Description: The professional or practitioner knows how to manage the project organisation, including implementation, monitor-ing and maintenance of the temporary organisation. Implementation means to make the initially defined organisational structure operational – to make it work. However, implementation also includes changes to the organisation when necessary. The need for changes to the temporary organisation should be anticipated as the project evolves. Any given structure of an organisation is valid only for a limited period of time. In particular, changes in contextual factors (such as strategy and/or power and interest) tend to influence the temporary organisation and call for changes or minor adjustments. Through the ongoing monitoring of the project's environment, the professional or practitioner has to proactively envisage the need for changes to the temporary organisation.

Measures

- Implements new organisational structures
- Monitors the organisation, including the roles involved
- Adjusts the organisation, including the roles involved

4.5.6 Quality

Definition: Quality in projects has two key drivers. On the one hand, it is about the quality of the process, the way in which the project is organised. This is about developing, implementing and reviewing standards for the way quality is addressed in component (sub-) projects and tasks. On the other hand, it is about managing, assuring and controlling the quality of the output and outcome of the project. Quality encompasses the entire project from initiation to post transition, throughout the whole life cycle.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish and manage the quality of the service/product to be delivered and the delivery process being managed; and to recognise quality as an invaluable tool for the benefits realisation management process.

Description: Quality in projects is on the one hand about ensuring the right quality of (intermediate) services or products delivered (specific to projects). On the other hand, it is about ensuring that quality processes are well implemented throughout the project. Ensuring quality processes are well implemented means setting a standard and measuring its effectiveness. Usually this is based upon the quality standards and methods of the organisation behind the project, as sponsor or as supplier. These should be tailored towards this project, and then implemented, measured and adapted.

Knowledge

- Validation and verification
- Process quality management tools, e.g. Lean, Six Sigma, Kaizen
- Product quality management
- Cost of quality
- Quality management standards, e.g. TQM, EFQM, Theory of Constraints, Deming Cycle
- Organisational quality analysis tools
- Standard operating procedures
- Policies implementation
- Design for testing
- Utilising indicators
- Inspection methods and techniques

- Risk based testing
- Testing techniques, including, for example, automated testing
- Continuous integration
- Software application for handling and managing tests and defects

Skills

- Analysing the impact of quality management on projects and people
- Implementing a standard (process and people)
- Adapting a quality standard
- Correcting people's and the group's behaviours with a wide variety of interventions
- Developing and executing quality plans
- Conducting quality assurance procedures
- Performing quality audits and interpreting their results
- Design of test plans

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 6: Teamwork
- People 8: Resourcefulness
- People 10: Results orientation

Key Competence Indicators

4.5.6.1 Develop, monitor the implementation of, and revise a quality management plan for the project

Description: The purpose of managing the quality is to plan and guarantee the quality requirements and standards applicable to the project and the project deliverables. Planning of the quality includes determining and agreeing with the project sponsor/owner and other key stakeholders on the quality objectives to be achieved. It includes defining indicators and setting quality target values for those indicators in the project at hand. It includes establishing the tools, procedures, techniques and resources necessary to achieve the quality objectives. It also includes developing the quality plan, including type of reviews, responsibilities, participants and a time schedule developed in accordance with the overall project time schedule. It includes the monitoring and assessment of the tasks defined in the plan, and closing the quality tasks, like all others in the project.

Measures

- Develops and monitors a quality plan
- Names different types of quality objectives
- Implements measures to achieve defined quality objectives
- Defines and implements quality measures
- Explains and names different types of tools/techniques for achieving quality objectives
- Explains and names procedures for achieving quality objectives
- Explains how to align the quality management activities to the overall project activities and also refers to own experiences (projects)

4.5.6.2 Review the project and its deliverables to ensure that they continue to meet the requirements of the quality management plan

Description: The purpose of performing quality management is to continuously review the project and the project deliverables. It encompasses all processes, tools, procedures, techniques and resources necessary to meet the defined and planned quality objectives. The quality management process ensures that the quality goals to be achieved are communicated, understood, accepted and followed by the members of the temporary project organisation. The process also includes executing the quality plan as the project progresses, revising it and delivering indicators of its fulfilment. Quality audits can be performed by various parties, by people from inside or outside the temporary project organisation, or even by external parties such as customers. Audits serve a relevant and important purpose, as they determine the performance of the quality process, the quality control, and their output must be analysed to determine the need for corrective and preventive actions or change requests. Quality audits can also be used as a means of reporting progress.

Measures

- Explains different ways of reviewing the project performance and the project processes
- Names key elements necessary for an effective and efficient project review
- Explains how to communicate project quality objectives
- Names different reasons for performing a project audit
- Performs a quality audit
- Analyses a quality audit and is able to define measures or change requests
- Presents at least one example of a corrective action

4.5.6.3 Verify the achievement of project quality objectives and recommend any necessary corrective and/or preventive actions

Description: The purpose of performing verification is to determine whether the established project quality requirements, objectives and standards are being met, in each phase of the project development. The process of performing verification is done during the entire project life cycle, usually at the end of each phase. It includes establishing whether the quality of the project deliverables and processes is being met and detecting defects by using established tools, procedures and techniques. It also includes analysing possible causes of defects, determining the appropriate corrective and preventive actions and formulating recommendable change requests. Finally it includes communicating the recommended corrective and preventive actions and change requests to relevant members of both the temporary and permanent project organisation. Parties representing the permanent organisation may perform verification activities. It has been proven that it is more cost efficient to perform verification at early stages of the development of the project, instead of leaving verification to the end of the project.

Measures

- Describes the outcome of a planned and performed verification process referring to own experiences (projects)
- Explains the contents and outputs of a root-cause analysis carried out on the basis of detected defects
- Explains the process and goals of peer reviews
- Performs verification and recommends corrective actions

- Outlines the contents and steps in communicating preferred and recommended corrective actions and change requests, referring to own experiences (projects)

4.5.6.4 Plan and organise the validation of project outcomes

Description: It is often not feasible to assess whether a specific, measurable, achievable and timed goal or objective is met or not, or the degree or percentage to which the goal or objective is met. The anticipated value gained from a project by means of the project deliverables is an example of this, as it is often difficult to measure and verify explicitly. In such cases, validation is a feasible way to determine the quality level of the value gained from the project outcome. The goal of validation is to create a formal acceptance by the client of the project. Validation is typically performed by either the permanent organisation or other external par-ties (e.g. customers) and rarely by the temporary organisation itself. However, it is the responsibility of the professional or practitioner to plan and organise the validation. Validation can be done in various ways: in a single event or as a process to ensure continuous validation.

Measures

- Explains the difference between verifying and validating
- Documents different types of quality objectives suitable for quality validation
- Conducts a validation exercise of project outcomes
- Obtains a term of acceptance from a client

4.5.6.5 Ensure quality throughout the project

Description: Based upon the quality procedures both of the organisations and the suppliers, a quality approach for the project is chosen and implemented. It should be fit for purpose, and implementable with relative ease. Adaptation, integration and implementation will require dealing with several organisations (or parts of organisations), who all prefer doing it their own way. Once implemented, regular check-ups and improvements need to take place to maintain the fitness for purpose. Since quality is about people, not just about processes, special attention should be paid to quality awareness and 'the right quality for this project'.

Measures

- Assesses, adapts and integrates quality standards being used by organisations
- Implements quality processes in the project/programme/portfolio
- Conducts regular assessments of the implemented processes and improves them when needed
- Implements quality awareness in the project/programme/portfolio, so that everyone involved knows what quality is required
- Conducts regular assessments of the quality awareness and takes corrective action when needed

4.5.7 Finance

Definition: Finance includes all activities required for estimating, planning, gaining, spending and controlling financial resources, both the inflow and outflow to the project. Finance therefore includes the cost management (outflow often related to a budget) as well as the financing (inflow external to the organisation) and/or funding (inflow from within the organisation) required for successful management of the project.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure that enough financial resources are provided to the project at any time, that the financial targets of the project can be met and that the financial status is monitored, reported and properly used for adequate management of financial resources.

Description: Initially the professional or practitioner has to make an estimate of the costs that are necessary to execute the project – i.e. define the budget. The professional or practitioner also has to take actions relating to the way the project is financed or funded. The professional or practitioner therefore has to know what the planned (or expected) and actual costs of the project are and how they relate to the progress of the work done and the objectives achieved.

In addition, cost management systems have to be established within the organisation of the project. These are used to monitor the financial status and provide a forecast on financial and performance issues so the professional or practitioner can make appropriate decisions.

The professional or practitioner needs to know what funding is contracted and what funding is expected. In this way, the professional or practitioner can use the performance indicators to make forecasts of the future performance of the project and, if cost breaches are signalled, should report on these according to the project's organisation and governance and suggest appropriate mitigation plans. The term 'funding' is used when an organisation finances the project internally; the term 'financing' is used when the organisation acquires funds for the project from external sources, e.g. loans, joint ventures, etc.

For every project, the proper management of cash flow in terms of expenditure and income is crucial. The cash inflows and outflows must be calculated and evaluated regularly so the appropriate actions can be taken to ensure sufficient financial resources. The set-up of the financial management system has to be made in co-operation with the financial and/or treasury department and other relevant parts of the permanent organisation.

Knowledge

- Financial accounting basics (cash flow, chart of accounts, cost structures)
- Cost estimating methods, e.g. single or multi-expert estimations (Delphi method), historical data, analogies, effort models, parametric estimations (function point method), three point estimation
- Cost calculation techniques (e.g. direct, indirect calculation, activity-based costing, etc.)
- Design-to-cost/target costing
- Processes and governance for cost management
- Methods for monitoring and controlling expenditures
- Performance indicators (earned value)
- Reporting standards
- Forecasting methods (linear, parametric, velocity analysis)
- Financing options
- Funding sources
- Financial management concepts and terms, such as (but not limited to) cash flow, debt-asset ratio, return on investment, rates of return
- Contingency approaches

- Relevant conventions, agreements, legislation and regulations, including (but not limited to) taxation, currency exchange, bilateral or regional trade agreements, international commercial terms, World Trade Organisation determinations

Skills

- Convincing/negotiating with sponsors
- Scenario techniques
- Interpreting and communicating the actual cost situation
- Developing financial forecasts and models
- Writing skills
- Presentation skills
- Reading financial statements
- Interpreting financial data and identifying trends
- Financial management approach analysis
- Developing a project budget
- Setting frameworks for resource project cost estimation
- Directing and authorising cost strategies and cost management plans
- Developing and maintaining cost management systems
- Conducting analysis, evaluating options and implementing responses to project cost variations

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

4.5.7.1 Estimate project costs

Description: The professional or practitioner estimates (or if possible calculates) the costs needed to execute the project. Direct costs, such as labour hours, materials, investments, ongoing operating costs, travel expenses, training costs, and indirect costs, such as overhead fees or licences or even opportunity costs, all have to be identified and estimated. Cost estimation includes the utilisation of a cost breakdown structure (possibly derived from a work breakdown structure) or other appropriate methods, in order to categorise the estimated costs. Cost estimation is mostly done 'top-down', based on the experience of subject matter experts, historical data, group estimation, 'bottom-up' or other domain-specific techniques. Cost targets for the whole project or single cost categories might be defined 'top-down' or 'bottom-up'. When doing the calculation the professional or practitioner also needs to be aware of any normative cost standards which could help in doing the more accurate calculation (e.g. engineering industry cost calculation standards). Furthermore, dependent on the specifics of the industry and the nature of the goods or services sold on the market, the professional or practitioner needs to be able to apply the appropriate cost calculation technique.

Measures

- Sets up cost structures and identifies cost categories
- Selects appropriate cost calculation technique (e.g. direct calculation)
- Sets the cost targets by consulting any relevant standards or internal guidelines

4.5.7.2 Establish the project budget

Description: Establishing budgets is closely related to estimating costs. Based on the cost estimation, the professional or practitioner defines the budgets on appropriate levels of the cost breakdown structure. A close link to the work breakdown structure will ensure that it is possible to identify when costs will be expended and on what. The professional or practitioner gets an overview of the time-related expenditure of funds. By taking not only the outflows but also the inflows of cash into account, a cash flow can be forecast even at an early stage of the project. The costs should be connected with time, in order to check whether the costs can be secured by the funding function of the organisation and, if not, to ensure that the appropriate adjustments are made. The project budget should include contingencies that are held in reserve to fund uncertainties, risks, claims or cost overruns.

Measures

- Establishes budget plans
- Develops budget scenarios based on cost-relevant items
- Plans budget for contingencies
- Assesses the budget against the time and funding and makes possible adjustments
- Sets the final budget

4.5.7.3 Secure project funding

Description: The professional or practitioner ensures the availability of financial resources at the right time to make sure costs are covered. The professional or practitioner must follow the organisational approval processes (if in place) to get the financial needs granted. Discussions around the funding may be influenced by political circumstances. In this case, the professional or practitioner may need to promote the project to potential internal and external sponsors. Even though the financing part should fall under the accountability of the project sponsor, usually the project manager needs to determine the finance structure.

Measures

- Establishes funding strategies for projects
- Identifies sources of funds
- Handles the organisational approval processes
- Cooperates, keeps close contact to and can negotiate with potential sponsors in order to get funds

4.5.7.4 Develop, establish and maintain a financial management and reporting system for the project

Description: A financial management and reporting system must be established so that an overview of the financial situation and status of the project is available at any time. The financial management system links the project cost structure, the organisational cost structure and the time schedule. It includes not only processes but roles and responsibilities as well (e.g. payment authorisations). Financial reports are the visual output of the management system. The professional or practitioner establishes performance management indicators to monitor the relations between cost and progress

(e.g. cost to complete and earned value). Bases for these indicators include the mapping of cost structures and project structures. In most organisations the project financial management is closely linked to organisational accounting and controlling processes. If in place, mandatory methods and instruments may have to be used, but adapted to the specific needs of the project. If not in place, a project-specific financial management system must be defined and applied.

Measures

- Defines processes and governance for financial management
- Defines financial performance indicators on the project
- Relates the project cost structure to the organisational cost structure (e.g. aggregating work packages)
- Develops appropriate reports in accordance with the project's organisation and governance

4.5.7.5 Monitor project financials in order to identify and correct deviations from the project plan

Description: The goal of financial controlling is to identify deviations from the plan to enable timely reactions. The professional or practitioner monitors planned and actual costs, liabilities and expected costs of the project as well as the cash flow. After analysing the deviation and its possible causes, necessary actions are taken. Planned costs are derived from the latest project plan (latest approved budget updated with changes). The actual costs come from the actuals monitored by the project team. However, the real figures are often provided by the organisational accounting. They encompass expenses for all planned cost items, such as labour hours, travel costs or bills, and any other liabilities covered by the procurement agreement and not stated in the cost calculation (e.g. material transport, consultancies, etc.). The liabilities are often included in cost controlling. Liabilities are expenses bound by purchase orders but not yet paid. Comparing actual costs to planned costs is especially informative when the costs are related to the project progress. The professional or practitioner uses the financial performance indicators to monitor the relations between planned cost, actual cost, actual work done and progress trends (e.g. earned value indicators: SPI, CPI, etc.). Thus the professional or practitioner analyses the current project performance by controlling the financial resources and manages any underspending or overspending. Finally, the professional or practitioner uses the performance indicators to make forecasts of the future project performance. If cost breaches have been forecast, the professional or practitioner needs to report in accordance with the project's organisation and governance and suggest an appropriate mitigation plan.

Measures

- Establishes and evaluates cost reports
- Analyses and interprets financial situations
- Uses financial performance indicators to monitor and control the project
- Produces project performance forecasts based upon the financial indicators
- Signals cost breaches and suggests mitigation plans in accordance with the project's organisation and governance for any cost breaches that cannot be handled by the programme budget contingencies

4.5.8 Resources

Definition: The resources competence element includes defining, acquiring, controlling and developing the resources that are necessary to realising the project's outcome. Resources include people, expertise, facilities, equipment, materials, infrastructure, tools and other assets required to carry out the activities according to the objectives. This competence element includes defining a strategy for acquiring

and utilising the resources for the best performance of the project, optimising the utilisation of the resources given the time and financial constraints, and the continuous monitoring and control of these.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure that the resources required are available and assigned as needed in order to meet the objectives.

Description: To realise its objectives, a project needs resources. Managing resources means applying a proper approach to defining and obtaining these resources. Resource allocation must be prepared during the planning phase and should be continuously monitored and adjusted throughout the whole life cycle of the project. The professional or practitioner should make sure that the human resources have the necessary competences and that they are provided with adequate information, tools and training to perform the required tasks successfully. Since resource needs and availability change regularly, for both controllable and uncontrollable reasons, resourcing is a continuous or regular process.

In the case of projects, professional or practitioner often have to negotiate with the permanent organisation or external service providers in order to obtain the desired resources. With some kinds of resources, conflicts in availability may occur, due to unexpected events such as funds shortage, performance troubles, equipment failure, weather, labour unrest, etc. Such conditions may require re-scheduling of activities and a change in the resources involved in the current or subsequent activities, especially if critical activities are affected by such events. Procedures should therefore be put in place to identify such unexpected events and ensure that the necessary adjustments are made as soon as possible.

Knowledge

- Resource allocation methods
- Resource assessment
- Resource utilisation calculations and collection techniques
- Competence management
- Procurement processes, supply and demand concepts
- Training

Skills

- Resource planning, allocation and management
- Identifying and classifying different ways of working
- Developing resources skills matrix identifying skills and documenting professional or practitioner skills gaps
- Prioritising and allocating resources, given multiple competing priorities

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 5: Leadership
- People 6: Teamwork
- People 8: Resourcefulness

- People 9: Negotiation

Key Competence Indicators

4.5.8.1 Develop strategic resource plan to deliver the project

Description: The strategic resource plan stipulates who is responsible for which part of the resource definition, resource allocation, resource development, resource distribution and resource freeing. Responsibilities may lie with the programme manager (if project is part of a programme), with the constituent organisations, with resource managers or with the underlying projects. The strategic resource plan needs to be in line with the schedule. The professional or practitioner develops, organises and assesses a plan and adapts it to changes whenever needed.

Measures

- Identifies project resource requirements based on resource forecasts
- Captures baseline of existing and proposed resources
- Reviews and analyses the resource capacity of the organisation and identifies trends
- Coordinates with constituent organisation or portfolio management processes

4.5.8.2 Define the quality and quantity of resources required

Description: The professional or practitioner must identify the resources (type, quantity and quality) that are needed to successfully deliver the project results, based on the strategic resource plan. Resources include people, expertise, facilities, equipment, materials, infrastructure, tools, non-financial funds or services. After identifying these resource needs, a more detailed analysis is conducted that defines when the resources need to be available and of what quality and in what amount they are needed. This may result in a detailed operational resource plan(s).

Measures

- Describes the resources needed for the project
- Draws up a resource plan (based on detailed project planning)
- Defines the amount and quality of the required resources

4.5.8.3 Identify the potential sources of resources and negotiate their acquisition

Description: Once the needed resources have been defined, the right resource providers must be identified. Resources can be sourced with the organisations, or with commercial parties. Many organisations provide sourcing guidelines that have to be followed. Especially when 'make or buy' decisions have to be taken, the professional or practitioner must rely on formal and informal networks. A good knowledge of the organisation, as well as a broad overview of the markets for resources, is necessary, in order to create and decide on sourcing alternatives. Obtaining external resources is very different from allocating internal resources. While acquiring internal resources is merely a question of availability and quality, the costs for external resources also have to be negotiated.

Measures

- Takes 'make or buy' decisions
- Creates and evaluates sourcing alternatives
- Defines a sourcing strategy
- Engages with resource providers
- Negotiates resource availability

4.5.8.4 Allocate and distribute resources according to defined need

Description: Resource allocation means assigning resources to specific projects or activities. This enables monitoring, controlling and management of the resources, their results and the related costs. Allocating resources is in general closely linked to scheduling. Changes in the schedule and changes in the resource availability or quality often affect each other. Some specialities have to be taken into account when human resources are allocated, as productivity or learning speed may differ between professional or practitioner. The resources that are contracted need to be distributed within the project according to needs and according to the strategic resource plan. The conditions under which resources are contracted need to be adhered to. When there are conflicting resource needs, the professional or practitioner needs to consider all options and come up with the best way to handle these needs, based on priorities, urgency, or other criteria. Measures to overcome resource shortage have to be developed and implemented. The professional or practitioner has to be able to organise the resource distribution and adapt it as necessary. This is the case not only for the resources the professional or practitioner is directly responsible for, but also for resources critical to the delivery of benefits that are under the jurisdiction of other parties (stipulated by the strategic resource plan).

Measures

- Links resources with project structure
- Creates schedules (or task lists) for resources
- Negotiates resource conflicts

4.5.8.5 Evaluate resource usage and take any necessary corrective actions

Description: All the relevant resources parameters and indicators must be monitored to ensure the proper usage of resources. Evaluating resources entails applying a systematic approach in order to derive productivity numbers. When required, the professional or practitioner should take corrective action. In the case of over- or underestimation new assignments must be checked. The professional or practitioner should also regularly evaluate the quality and availability of assigned resources. In the case of external resources, consultations with suppliers and other contractors may be necessary in order to improve or exchange the resource. The performance of people may have to be improved. These people would then need development, coaching and specific training measures. This should be negotiated and coordinated with the resource suppliers. The professional or practitioner is responsible for allocating and re-allocating critical resources, even beyond the resources for which the professional or practitioner is directly responsible.

Measures

- Defines a systematic approach to evaluating the use of resources
- Provides opportunities to enhance competences/skills
- Addresses a skill shortage with the relevant team member and his or her line management

4.5.9 Procurement

Definition: Procurement is the process of finding, agreeing terms and acquiring goods, services or works from an external source, often via a tendering or competitive bidding process. The process is used to ensure the buyer receives goods, services or works at the best possible price, when aspects such as quality, quantity, time, and location are compared.[1] Corporations and public bodies often define processes intended to promote fair and open competition for their business while minimizing risk, such as exposure to fraud and collusion.

Almost all purchasing decisions include factors such as delivery and handling, marginal benefit, and price fluctuations. Procurement generally involves making buying decisions under conditions of scarcity. If good data is available, it is good practice to make use of economic analysis methods such as cost-benefit analysis or cost-utility analysis.

It includes all processes, from purchase planning to make the purchase and contract administration. Because procurement focuses on the suppliers outside the parent organisation, it procures resources (people, tools, material, and sub-deliverables) that are not available from within the organisation. This competence element also includes choosing or taking the optimal procurement routes, which should fit the long-term objective of the client but also the organisation (e.g. partnership, joint ventures, etc.). These routes can mean sharing funding, expertise, etc., but also entail the risks of failing on the market.

Purpose: The purpose of this competence element is to enable the professional or practitioner to obtain the best value possible from the chosen suppliers or partners, and thus deliver the best value for the buyer and the organisation.

Description: The process of procurement enables organisations to acquire the necessary resources that these organisations do not possess or produce themselves (at least, in the amounts needed). Organisation's procurement policies are often imposed top-down. When procurement aspects involve a substantial portion of a project, or when there are multiple procurement items, the procurement approach should be documented in a procurement plan covering at least:

- Types of contracts to be used
- Roles and responsibilities
- Supplier selection procedures
- Subcontracting rules

The management of procurement is either performed by professional or practitioner assigned to the project, delegated to specialists or departments (e.g. legal department, finance department), directed by the programme level responsible for organisation-wide procurement and strategic partnerships, or even influenced by the portfolio level. Strategic considerations such as sustainability, lifecycle costs and reduced overhead from the development of positive relationships with suppliers, partners or buyers, and the risks connected with them, must also be taken into account. For each item to be acquired, the basic process includes defining needs, identifying potential suppliers or partners, obtaining technical and financial proposals, selecting a preferred supplier or partner and negotiating an agreement with the preferred supplier, making the purchase and contract administration. The inventory, disposals and other relevant functions are often considered as indirect procurement. The amount of effort devoted to each step should correspond to the size and complexity of the item being procured.

An exchange of goods or services between units of the same legal entity may sometimes be treated as procurement. In such cases, the procurement should be treated as if it were between independent parties and subject to the same degree of control.

Knowledge

- Sourcing strategies
- Make/buy analysis
- Supplier development methodologies

- Organisational procurement policies, procedures and practices
- Procurement methods (e.g. RFI, RFP, RFQ)
- Contract types (e.g. firm fixed price, time and materials, cost plus)
- Claim management processes, methods and tools
- Tender procedures and practices
- Contractual judicial knowledge
- Contractual terms and conditions
- Supply chain management

Skills

- Tactical know-how
- Presentation skills
- Contract administration

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 4: Relations and engagement
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

4.5.9.1 Agree on procurement needs, options and processes

Description: Needs and options identification is the process of determining which resources or services are to be procured or for which aspects of the project partners will be acquired. This may result from shortage or lack of internal availability or a conscious choice to acquire resources externally (make or buy strategy). The procurement options, routes, acquisition requirements, tender documents and selection criteria must be agreed on. The professional or practitioner manages this process, often in close cooperation with, or delegated to specialised departments or the management, ensuring that relevant information is made available and that the relevant internal and external stakeholders are informed.

Measures

- Defines reasons (based on needs) for procurement or partnership
- Prepares, produces or collects the necessary information as input to the procurement subject matter experts
- Defines tender documents and selection criteria based on needs
- Supports procurement preparation processes and procedures

4.5.9.2 Contribute to the evaluation and selection of suppliers and partners

Description: The professional or practitioner ensures that the possible partner organisation and/or other experts, suppliers or partners are identified, evaluated and selected. In this selection process the defined tender documents and selection criteria are applied (or, if no supplier is able to deliver in accordance

with the terms of reference, reformulated). These tender and selection criteria and the procurement process may be subject to formal regulations (e.g. in Roman-Germanic law countries). The selection process itself often includes various steps, such as requests for information (RFI) and requests for proposal (RFP) or requests for quotation (RFQ). If the procurement leads to any partnership models and the bidding process is not being used, the professional or practitioner shall follow a careful process to safeguard the quality of the selection of partners.

Measures

- Launches request for quotation (tender), if necessary in cooperation with the procurement function
- Outlines and defines the various steps in a supplier selection process
- Defines and explains the contents of tender documents
- Defines and uses the selection criteria
- Aligns with formal procurement regulations (international, national and branch-specific)
- Assesses the specifics of the procurement and suggests partnership models (e.g. joint ventures, long-term partnerships, etc.)

4.5.9.3 Contribute to the negotiation and agreement of contractual terms and conditions that meet project objectives

Description: Once the supplier or partner is selected, a negotiation process may follow, in order to reach agreement about the contractual terms and conditions. The professional or practitioner oversees this process and makes sure that the negotiators have a clear mandate, in close cooperation with purchasing and/or legal specialists.

The contracts may vary in form, level of detail, contract duration, terms and conditions, penalties, applicable law and many other aspects. The professional or practitioner takes care that these aspects closely relate to and serve the objectives of the project and the organisation.

When the contract negotiations are complex and long lasting, sometimes a pre-contractual arrangement is agreed on to make preliminary work or deliveries possible.

Measures

- Defines a negotiation mandate and sets objectives to be negotiated
- Distinguishes different contractual forms and their implications for the project
- Knows contractual terms and conditions and reflects their implications for the project
- Negotiates a contract by establishing price, availability and customisation possibilities and procurement schedules

4.5.9.4 Supervise the execution of contracts, address issues and seek redress where necessary

Description: Contract performance means the continuous supervision of the supplier or partner once the contract has been established, to ensure the correct and timely execution of the contract. In case of deviations from the contract, the professional or practitioner has to take action or escalate, whenever necessary, within the own organisation. If one or more of the contract terms (such as delivery time, quality, etc.) are not met, the professional or practitioner must take action to address this issue and if possible solve it. This may include various techniques, from soft notices to serious renegotiations, and

the professional or practitioner needs to know when to use each of these. After the techniques are applied, if the contract partner remains in default, the professional or practitioner should take or invite a decision as to whether a penalty should be claimed or whether to seek redress from the contract partner by other means. This situation may include legal action or involve legal specialists, always consulting the management in order to align with the strategic procurement long-term policies.

Measures

- Implements measures to manage contract performance
- Identifies deviations from the contract
- Handles contractual breaches by taking corrective measures (e.g. talks, renegotiations, etc.)
- Involves in the case of difficulties in renegotiations legal, logistic and/or procurement functions of the organisation
- Handles contractual disputes and claims made by the supplier
- Concludes and ends the agreed business relationship when either the project is in risk or all of the obligations in the contract have been met

4.5.10 Plan and control

Definition: Based on the design, all elements come together in a balanced plan, the execution of which is controlled. The plan should be regularly updated, based on changes happening within the project or in its context. Control is also regularly adapted and improved, so that the professional or practitioner remains in control.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish and maintain a balanced and integrated view over the management of a project. Maintaining the balance, consistency and performance is crucial in order to achieve the agreed outcomes.

Description: The plan and control competence is where all information comes together and decisions are pre-pared or taken. Many processes and activities are described (and managed) in detail in the other competence elements. In this competence element, they are viewed and managed in combination, as stipulated in the architecture document developed in design. The basic, cyclic process is: plan, execute, monitor, adjust plan or adjust execution.

The focus from a project management point of view is on planning and monitoring. Information has to be acquired and combined, the organisation and its teams have to be selected, and choices have to be made. The professional or practitioner must determine how to plan and scale the project management effort, and the way to manage the project. This includes choosing the right management style, how much and what to delegate, etc. All this is laid down in one or more decision documents (vision, roadmap, plan, etc.) that need discussion and agreement.

Once the project is established, monitoring processes should be in place. These processes gather information regularly on progress, finances and utilisation of resources compared with baselines, adherence to quality and other standards, stakeholder satisfaction, etc. Regular reporting (both by lower levels to the project manager and by the project manager to stakeholders) is an essential part of the competences.

To continuously support the learning process, the performed management effort should also be evaluated on a regular basis. Based on this information, changes may be required.

A predefined and transparent change management process is another essential element of project control. At the orderly conclusion of a phase during the project life cycle, an evaluation should take place and a report should be prepared stating the project outcomes, success and lessons learned.

Knowledge

- Phase/stage transitions
- Reporting
- Project office
- Deming cycle (plan-do-check-act)
- Request for change
- Management by objectives
- Management by exception
- Lessons learned report
- Phase/stage/sprint/release planning
- Request for change
- Decision to fund and make or buy
- Exception reports
- Issue reports
- Project management plan
- Project (phase) evaluation
- Discharge
- Decision making authority

Skills

- Progress control meetings
- Change management
- Reporting
- Negotiation of change requests
- Start-up workshop
- Kick-off meeting
- Close-out meeting
- Issue management
- Change management
- Earned value analysis
- Slip-charts

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

4.5.10.1 Start the project and develop and get agreement on the project management plan

Description: The first phase of every project is essential, as it provides the basis for a successful project. This preparation phase is frequently characterised by uncertainty, with information that is sketchy or not yet available. Stakeholder requirements may be only roughly defined, their expectations unrealistic and time-frame undeliverable, while early optimism and enthusiasm needs to be tempered with reality.

A proactive project management style, a well prepared and effectively man-aged start-up workshop and the recruitment of the right project team personnel can improve the chances of a successful project. One or more start-up workshops should focus on developing the project charter and preparing the project management plan, setting out the team roles and critical path for the project.

The professional or practitioner prepares and plans a project. Starting from the predefined high-level design, the professional or practitioner gathers, analyses, values and prioritises enough information from the stakeholders and experts to fine-tune this approach and make an overall project management plan. This plan will be based on information and choices about requirements and quality, agreed deliverables and constraints, organisation and communication structures, necessary resources and budget, planning and main risks, etc. Finally the plan needs to be validated and agreed upon (and the necessary resources and budget made available) to initiate the start-up and the execution phase(s) of the project.

Measures

- Organises the project start-up process
- Gathers all necessary information from the stakeholders and experts
- Analyses, values and prioritises information
- Organises and facilitates a project start-up workshop
- Prepares the project charter or project management plan and gets agreement on it
- Prepares and communicates the plan for the project management effort
- Initiates and manages the transition to a new project phase

4.5.10.2 Initiate and manage the transition to a new project phase

Description: Following the decision to fund and continue with the project, the start-up of the next phase and all subsequent phases are all carried out with the following in mind:

- The specific objectives for this next phase of the project
- Any necessary organisational changes
- The need to reconfirm or modify the project charter and project management plans.

The detailed time schedule, cost and resource plans, risk register and possibly the expected ben-efits (business case) all need to be updated. Depending on the size or complexity of the project, a kick-off meeting is an effective means to inform and engage the project team(s) about the plans, demands and goals of the project or project phase. This meeting or workshop may also be used to define the work breakdown, planning, assignments or project values in more detail.

Measures

- Organises the management of the project execution process
- Defines the goals and deliverables of the following phase(s)
- Manages the phase transition

- Organises and facilitates a kick-off meeting

4.5.10.3 Control project performance against the project plan and take any necessary remedial actions

Description: Control is based on project objectives, plans and contracts. This management process measures actual project progress and performance, compares it against the baseline, and takes any necessary remedial action. Controlling is normally done through checks against pre-set objectives by measuring results and correcting deviations (diagnostic control). When there are major uncertainties, these can be reduced by using feedback and suggestions from operational members to adjust the process (interactive control). Control and reporting is carried out for the current period and includes a forecast for an appropriate number of future time periods. An integrated project controlling and reporting system covers all project objectives and the corresponding success criteria for the relevant project phases and requirements of all stakeholders.

Measures

- Defines a performance control cycle
- Describes means and methods applicable for performance control
- Measures progress and performance

4.5.10.4 Report on project progress

Description: Reporting provides information and communication about the status of work on the project (cost, time, resources, risks and opportunities, exceptions, etc.) in the current and previous phases, and forecasts developments for the current phase and up until the end of the project. Reporting includes both periodic verbal and written status updates and forecasts by team members or team leads to the project manager and by the project manager to stakeholders (such as the principal and project boards). Reporting also includes financial audits and reviews of the project. Where the professional or practitioner and/or team are very experienced, it may be sufficient and acceptable for stakeholders to 'report only by exception'. This means only issuing a report when there is something significant that needs to be reported, rather than being monitored via regular status or update reports.

Measures

- Makes a reporting structure (what, when, how often, how, etc.)
- Makes a progress report
- Makes a forecast report
- Makes phase transition reports

4.5.10.5 Assess, get agreement on, and implement project changes

Description: Changes are often necessary in a project due to unanticipated occurrences. It may be necessary to change the project specification or the contract terms with suppliers or customers. Changes must be monitored against the original project goals and objectives as set out in the business case and/or project charter. At the start of a project, the change management process to be adopted should be agreed with all relevant stakeholders. A formal, proactive change management process that anticipates the need for change is preferable to a process that only reacts after the need for change is obvious.

A change to the scope of a project or to the specification of a deliverable is made by a formal, predefined process. The change process embraces everything that results from the change required or new opportunity identified, and includes agreement on the change decision process, agreement on the need for change, and the decision to accept the change and its implementation. This applies for all kinds of changes. Change management identifies, describes, classifies, assesses, approves or rejects, realises and verifies changes against legal and other agreements. Changes can be requested by any party and have to be managed as both proposed and approved changes, as well as properly communicated to all relevant stakeholders. For the management of a change, its direct and indirect effects on the whole project and its context are taken into account. The impact of the changes on the project deliverables, configuration, time schedule, cost, finance plan and risks are determined by comparison with the project baseline. Once the changes have been accepted, the project plan is adjusted accordingly.

Measures

- Organises a process for managing changes
- Makes an exception or change report
- Changes the scope configuration

4.5.10.6 Close and evaluate a phase or the project

Description: The closeout process takes place after the completion of the project or of a phase of the project, after the results of the project or phase have been delivered. Each phase of a project or sub-project should be formally closed with an evaluation and documentation of the phase carried out, checking that objectives have been achieved and customer expectations met. In the close-out of a phase, the proposals for the next phase(s) of the project should be reviewed and any issues requiring a decision submitted to the appropriate body for authorisation.

Where a formal contract has been signed, considerations include transfer of responsibilities from the contractor to the project owner, the commencement of the warranty period and the final payments that need to be invoiced. Handover (also known as 'as built') documentation needs to be produced and training provided to those who will use the project results. These are essential to ensure that the benefits of the investment made in the project are realised. Project results and experience gained are evaluated and lessons learned are documented so that they can be used to improve future projects. The members of the project team will be required for new assignments and should be formally released from their roles and responsibilities.

Measures

- Organises the project close-out process
- Organises and facilitates a close-out workshop
- Facilitates a complete project evaluation
- Prepares a project 'lessons learned' report

4.5.11 Risk and Opportunity

Definition: Risk and opportunity includes the identification, assessment, response planning, and implementation and control of risks and opportunities around projects. Risk and opportunity management helps decision makers to make informed choices, prioritise actions and distinguish among alternative courses of action. Risk and opportunity management is an ongoing process taking place throughout the life cycle of the project.

Purpose: The purpose of this competence element is to enable the professional or practitioner to understand and effectively handle risks and opportunities, including responses and overall strategies.

Description: Risk (negative effects) and opportunity (positive effects) are always viewed in their relation to and consequences for realising the objectives of the project. It is advisable as a first step to consider which overall strategies would best serve the handling of risks and opportunities relative to the corporate strategies and the project in question. After that, the risk and opportunity management process is characterised by first identifying and assessing risks and opportunities, followed by the development and implementation of a response plan covering the intended and planned actions for dealing with identified risks and opportunities. The response plan should be developed and implemented in line with the chosen overall risk and opportunity strategies. The professional or practitioner is responsible for involving team members and keeping the team committed to the risk and opportunity management process; for making the team alert to risks and opportunities; for involving other stakeholders in the process and for involving the appropriate subject matter experts whenever necessary.

Knowledge

- Strategies for managing risk and opportunity
- Contingency plans, fallback plans
- Cost and duration contingency reserves
- Expected monetary value
- Qualitative risk assessment tools and techniques
- Quantitative risk assessment tools and techniques
- Risk and opportunity response strategies and plans
- Risk identification techniques and tools
- Scenario planning
- Sensitivity analysis
- Strengths, weaknesses, opportunities, threats analysis (SWOT)
- Risk exposure, appetite, aversion and tolerance
- Project or programme risks and business risks (and opportunities)
- Residual risk
- Risk and opportunity probability, impact and proximity
- Risk owner
- Risk register
- Sources of risk and opportunity

Skills

- Risk and opportunity identification techniques
- Risk and opportunity assessment techniques
- Developing risk and opportunity response plans
- Implementing, monitoring and controlling risk and opportunity response plans
- Implementing, monitoring and controlling overall strategies for risk and opportunity management
- Monte Carlo analysis
- Decision trees, e.g. Ishikawa analysis

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 4: Power and interest
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness

Key Competence Indicators

4.5.11.1 Develop and implement a risk management framework

Description: The professional or practitioner designs, develops and implements a risk management framework in order to ensure that risks and opportunities are managed consistently and systematically throughout the project life cycle. The risk management framework should include the definition of the methods to be used to identify, categorise, evaluate, assess and treat risks and should link to the organisation's risk management policy and international, national or industry standards. When projects are part of a programme or portfolio, the risk management framework also describes who is responsible for handling which risks and opportunities, and what kind of escalation paths there are (upwards, downwards, sideways).

Measures

- Identifies a range of potential risk management models
- Develops a risk management framework consistent with organisational policy and international standards
- Ensures the consistent application of the risk management framework

4.5.11.2 Identify risks and opportunities

Description: The professional or practitioner is responsible for the ongoing task of identifying all sources of risks and opportunities and involving others in this process. There are various sources of risks and opportunities, both internal to the project and external. The professional or practitioner can make use of various techniques and sources to identify risks and opportunities, e.g. from lessons learned, literature, risk and opportunity breakdown structures and interactive sessions with team members, stakeholders and subject matter experts. The identification process is not only about identifying risks, but also about opportunities that could, for instance, make the deliverables cheaper, or make the project run faster, less prone to risks or simply better from a quality perspective. Because the influences coming from the environment of the project do change over time, risk and opportunity identification should be a continuous and ongoing process.

Measures

- Names and explains various sources of risk and opportunity and the differences between them
- Identifies risks and opportunities
- Documents risks and opportunities in a register

4.5.11.3 Assess the probability and impact of risks and opportunities

Description: The professional or practitioner is responsible for the ongoing task of assessing identified risks and opportunities. Risk and opportunity assessment can be done qualitatively and quantitatively.

The best approach is to do both, and to regularly re-assess both risks and opportunities. The qualitative assessment could cover a more indepth analysis of the sources behind identified risks and/or opportunities; it also deals with conditions and impacts. An example is scenario planning. The quantitative assessment deals with probabilities and estimates, and it also translates probabilistic impacts into quantifiable measures. Quantitative assessment provides numerical values measuring probability and impact expected from risks and opportunities. Monte Carlo analysis and decision trees are examples of powerful quantitative risk assessment techniques.

Measures

- Engages in qualitative risk and opportunity assessment
- Engages in quantitative risk and opportunity assessment
- Makes and interprets a risk or opportunity decision tree, with outcomes

4.5.11.4 Select strategies and implement response plans to address risks and opportunities

Description: The professional or practitioner is responsible for the ongoing process of selecting and implementing optimal responses to any identified risk or opportunity. This process entails assessing various possible types of responses and finally selecting the ones that are optimal or most appropriate.

For each risk the response options may include:

- Avoiding the risk by deciding not to start or continue with the activity that gives rise to the risk
- Accepting or increasing the risk in order to pursue an opportunity
- Removing the risk source
- Changing the likelihood
- Changing the consequences
- Sharing the risk with another party or parties (including contracts and risk financing)
- Accepting the risk by informed decision
- Preparing and implementing a contingency plan.
- Similar response options apply to opportunities:
- Eliminating the uncertainty by making the opportunity definitely happen (exploit)
- Allocating ownership to a third party who is best able to handle it (share)
- Increasing probability and/or impact, by identifying and maximising key opportunity drivers (enhance)
- Taking no special measures to address the opportunity (ignore).

Those risks that are not acceptable and those opportunities that are to be pursued require an appropriate response plan. Often, even after implementing risk responses, there is a residual risk that still has to be managed.

Measures

- Explains various means and methods for implementing a chosen overall strategy for the risk and opportunity management process
- Evaluates responses to risks and opportunities, including their strengths and weaknesses
- Evaluates alternative means and methods for implementing a risk and opportunity response plan
- Influences the plan for resources and competences required to implement responses
- Implements and communicates a risk and opportunity response plan

4.5.11.5 Evaluate and monitor risks, opportunities and implemented responses

Description: After the appropriate risk and opportunity responses have been implemented (this may include appointing risk owners for certain or all risks) the risks and opportunities will need to be monitored. The risks and opportunities and the appropriateness of the selected responses should be re-assessed periodically. Risk and opportunity probabilities and/or impacts may change, new information may become available, new risks and opportunities may arise, and the responses may not be appropriate any more. The overall strategies may also need to be evaluated. In fact, risk and opportunity management is not just a periodic process, but should take place continuously, as all actions may carry a risk aspect.

Measures

- Monitors and controls the implementation and execution of a risk and opportunity response plan
- Communicates the risks and opportunities and the appropriateness of the selected responses

4.5.12 Stakeholders

Definition: The stakeholder's competence element includes identifying, analysing, engaging and managing the attitudes and expectations of all relevant stakeholders. All professional or practitioner, groups or organisations participating in, affecting, being affected by, or interested in the execution or the result of the project can be seen as stakeholders. This may include sponsors, clients and users, suppliers/ subcontractors, alliances and partners and other projects, programmes or portfolios. Stakeholder engagement includes constantly revising, monitoring and acting upon their interests and influence on the project. Stakeholder engagement may also involve building strategic alliances that create organisational capacities and capabilities where both risks and rewards are shared.

Purpose: The purpose of this competence element is to enable the professional or practitioner to manage stakeholder interests, influence and expectations, and to engage stakeholders and effectively manage their expectations.

Description: Stakeholder engagement is an ongoing process, taking place throughout the life cycle of the project. Stakeholders are the partners for and through whom the project will achieve success. Stakeholders' expectations, needs and ideas create the need and form the basis for the project; stakeholders' money and resources are necessary inputs, and stakeholders use the outcome.

Stakeholders come in various forms and groupings (higher management, users, suppliers, partners, pressure and special interest groups, etc.) and have varying attitudes, interests and influence. Therefore, each stakeholder or stakeholder group has different information needs. An engagement strategy (often laid down in a communication plan) is therefore essential.

This strategy might be executed by focusing on both formal and informal communication channels as well as more involving forms, such as alliances, collaboration or networks. Alliances are often documented and formalised through a contract document such as an alliance contract, or through the establishment of a joint venture entity. Collaborators may often be employed in separate parts within an organisation, or may comprise one or more different organisations. Networks have no clear power structure, and hence are more difficult to engage with.

During the execution of the engagement strategy, the stakeholder environment should be constantly monitored for changes to ensure continuous alignment and improvement.

Knowledge

- Stakeholder interests
- Stakeholder influence
- Engagement strategies
- Communication plan
- Collaborative agreements and alliances
- External environment scanning relating to social, political, economic and technological developments

Skills

- Stakeholder analysis
- Analysis of contextual pressures
- Demonstrating strategic communication skills
- Expectations management
- Formal and informal communication
- Presentation skills
- Networking skills to identify potentially useful and opposing stakeholders
- Contextual awareness
- Undertaking conflict resolution

Related competence elements

- All other practice CEs
- All perspective CEs
- People 3: Personal communication
- People 4: Relations and engagement
- People 5: Leadership
- People 8: Resourcefulness

Key Competence Indicators

4.5.12.1 Identify stakeholders and analyse their interests and influence

Description: The professional or practitioner identifies all professional or practitioner , groups and organisations relevant to the project. The professional or practitioner first has to analyse the attitudes of each stakeholder (group) and find out the reasons for these attitudes (interests of the stakeholder in the project's outcome or process). Secondly the professional or practitioner needs to know the potential beneficial or harmful effect (influence) this stakeholder (group) can have on the project. Their interests can come from various sources (for instance, because they want to, or have to, use the project's deliverables or because they are competing for scarce resources or budget). They can be great or small, and either positive or negative. In the latter case they are, for whatever reason, opposed to the project.

A stakeholder's influence can also be greater or smaller, and may be concentrated in one or more areas (such as being able to supply or withhold funding, resources, office space and equipment, priority, access, etc.). The professional or practitioner should be able to make a stakeholder analysis at the beginning of each project, identifying stakeholders, their interests and influence. During the project, the

professional or practitioner should maintain an active analysis of the environment of the project, to identify new stakeholders, changed interests or changed influences. These changes in the stakeholder environment can be the result of changes in the project itself (for example, going from a design to an execution phase). More often, they are the result of changes in the context of the project (organisational changes, personal changes in management, change in the economy, new regulations, etc.). The professional or practitioner should analyse the relevance of these changes for the project.

Measures

- Identifies the major stakeholder categories
- Identifies and names various stakeholders' interests
- Identifies and evaluates stakeholders' influence
- Identifies relevant changes in or around the project

Analyses the consequences of changes for the project

Takes actions in order to manage stakeholders

4.5.12.2 Develop and maintain a stakeholder strategy and communication plan

Description: The professional or practitioner will devise a stakeholder strategy how to engage, keep informed, involve and commit the various stakeholders to the project and its objectives. This can be done by approaching each stakeholder (or group of stakeholders) differently, depending on their interest and influence. To make it manageable, stakeholders with similar interests and influence can be grouped together. The stakeholder strategy is often laid down in a communication plan, which describes for each stakeholder (or group) the why, what, when (and how often), how (through which communication channel), who (should communicate), and the level of detail of the communication. The 'what' is essential; the message should be tuned to the specific stakeholders' expectations and should be aimed at committing each stakeholder to supporting (or at least not thwarting) the project.

The communication plan is central to expectation management. This can be summed up as the efforts of the professional or practitioner to influence the expectations of the various stakeholders so that these come to expect and appreciate what (and when) the project can and will deliver (and not get disappointed because of wrongly held expectations about progress and outcomes). Of course every communication is at least two-sided, so attention and care should be given to whether and how the sent communication was received, and follow-up should be given to feed-back and other incoming communication. As circumstances change, the communication plan should be regularly revised and updated. Potential alliances are developed and potential collaborators are identified. The benefits and out-comes of the potential partnership or alliance are identified for all parties. A relationship is established and developed with potential collaborators.

Measures

- Describes the importance of a stakeholder strategy
- Prepares a communication plan
- Adjusts the communication plan and/or strategy based on changed circumstances
- Explains reasons for changing a communication plan
- Identifies and evaluates opportunities for alliances and partnerships
- Identifies and evaluates potential collaborators

4.5.12.3 Engage with the executive, sponsors and higher management to gain commitment and to manage interests and expectations

Description: For almost all projects the most important stakeholders include executives and sponsors. Often the executive is the supplier of funds (budget) and/or can decide on resources, priority of requirements, definition of scope, etc. With these primary stakeholders, expectation management is of the utmost importance. The commitment and confidence of the executive, higher management and/or sponsor(s) is of great benefit both to the success of the project and that of management. A good working relation and open communication should be established.

Sometimes the roles are combined in one person; more often different people fulfil one or more of these roles. They all have their own expectations, interests and influence on the project. Depending on the project, the executive and/or sponsor(s) can play their part in the stakeholder management and act as ambassadors, as they often have status and connections that the professional or practitioner manager lacks.

Measures

- Engages management and/or sponsor(s)
- Manages expectations of the project's executive, higher management and/or sponsor(s)
- Employs the executive and/or sponsor(s) to act as ambassadors

4.5.12.4 Engage with users, partners and suppliers to gain their cooperation and commitment

Description: For almost all projects, early and thorough involvement of users is a prerequisite for success. Users (or their representatives) can provide information such as needs and requirements and how the outcome will be used. This is often essential to the definition of each deliverables. Users (or user groups) may also provide resources. Suppliers can provide the project with resources, knowledge, subproducts, etc. Care should be taken in choosing the best providers, especially if the knowledge, resources and/or subproducts can only be obtained from outside the organisation and formal contracts have to be closed to obtain these.

Partners are people, groups or organisations that cooperate to jointly deliver part of the deliverables, or they may make a broader contribution to achieving project objectives. These partners may only have joined their efforts for a specific part, or they may work together on a more permanent, alliance basis. Partners may also be other managers with whom the pace, or deliverable content, of this project has to be tuned to optimise the benefit for the organisation.

When the project has a steering committee, one or more senior users (user representatives) and senior suppliers (supplier representatives) are part of that committee. Users and other stakeholders may be part of a sounding board that advises the executive or steering committee. The professional or practitioner has to focus on these stakeholder groups from very early on in the project, and use his or her influence to select the right user representatives and suppliers.

Measures

- Engages users and commits them to the project
- Commits suppliers to the project
- Cooperates with partners to deliver the optimal result for the organisation

4.5.12.5 Organise and maintain networks and alliances

Description: As part of the stakeholder strategy, networks and alliances can be implemented. These can be both formal and informal. When they are formal, agreements are negotiated and documented and a plan for ongoing cooperation is developed and implemented. As part of this plan, performance measures are identified and an exit strategy is developed. All networks and alliances should be evaluated frequently and improved when necessary.

Alliances can be ended by design, or because the formal relationship is no longer beneficial to the constituent organisations or stakeholders. Often, the organisation is quite likely to want to make alliances with the same partners for new ventures in the future, so the ending of a formal relationship needs to be handled carefully.

Networks are more informal and tend to be sustained beyond the life cycle of the project.

Measures

- Negotiates and documents the alliance agreement
- Develops and implements a plan for cooperation
- Develops and evaluates measures for success
- Maintains key partnership agreements
- Closes all formal contractual agreements

4.5.13 Change and transformation

Definition: Newly developed capabilities only deliver benefits when they are put to use, and when they are supported by the organisations and people receiving them. Change (improvement of a current situation, keeping the past in mind) and transformation (the emerging development of new situations, based on a vision of the future) provide the process, tools and techniques that can be utilised to help professional or practitioner and organisations make successful personal and organisational transitions resulting in the adoption and realisation of change.

Purpose

The purpose of this competence element is to enable the professional or practitioner to help societies, organisations and professional or practitioner to change or transform their organisation, thereby achieving projected benefits and goals.

Description

Projects are organised in order to achieve improvements. In many cases, these improvements are not only achieved by delivering an outcome, but also require small or large changes in the behaviour of the organisation. People usually do not object to change – they object to being changed. Successfully addressing their objection can be done by, for example, building support, addressing resistance and developing the required knowledge and ability to implement the change. More strategic change will also encompass influencing a leading coalition, and other psychological and psychosocial interventions. When change management is done well, people feel engaged in the change process and work collectively towards a common objective, realising benefits and delivering results.

Transformation occurs when, based on a vision, behaviour is changed because there is a will to do things differently. Transformation is vision led, and depends largely on the strength of the vision and the willingness of the people who share the vision to really put their energy into making it happen. The level of change and transformation management required by a project will largely depend on the amount of disruption created in professional or practitioner 'and groups' day- to-day lives, plus attributes such as

culture, value system and history with past changes. Change and transformation do not primarily happen 'by design', and are not usually a linear process. The professional or practitioner needs to regularly monitor and evaluate the effectiveness of the changes and adapt the change or transformation strategy. The professional or practitioner also needs to take into account the change capacity and capabilities of people, groups or the organisation in order to help them successfully adapt or transform.

Projects usually deliver new capabilities. However, it is only when these capabilities are put to use that value is added and benefits can be achieved. Organisational or business changes often affect or alter processes, systems, organisational structure and job roles, but most of all they influence people's behaviour. Changes can be quite small, or they can require a complete transformation. Sometimes, they can even be disruptive, which means special skills are needed to bring them about. In many cases, a project will induce and organise change, but will have ended before the benefits resulting from it are realised.

Knowledge

- Learning styles for professional or practitioner , groups and organisations
- Organisational change management theories
- Impact of change on professional or practitioner
- Personal change management techniques
- Group dynamics
- Impact analysis
- Actor analysis
- Motivation theory
- Theory of Change

Skills

- Assessing an individual's, group's or organisation's change capacity and capability
- Interventions on behaviour of professional or practitioner and groups
- Dealing with resistance to change

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness

Key Competence Indicators

4.5.13.1 Assess the adaptability to change of the organisation(s)

Description: Organisations and people have limited capacity, capability and willingness to change. This is influenced, among other factors, by the success of earlier changes, stress and pressure, the

understood need for this particular change, culture and atmosphere, and seeing good or facing bad perspectives. There might also be resistance to the proposed change, either open or hidden, which negatively influences the adaptability to change. In many cases, opposition does not come from the people who are directly affected by the change, but from those who manage them. The adaptability to change is not fixed but will be influenced by factors both inside and outside the project.

Measures

- Analyses the adaptability to the required change, based on previous successful and unsuccessful changes in the organisation
- Assesses possible areas (topics, people) for resistance to the change
- Recognises and influences circumstances which can improve the adaptability
- Takes action when the required or expected change or transformation is not within the capabilities of the organisation(s).

4.5.13.2 Identify change requirements and transformation opportunities

Description: For a business perspective oriented projects, organisational requirements and the project's con-text are analysed to determine which transformation or business change needs to occur when. For a more societal perspective oriented project, the analysis needs to determine which societal groups can and should be influenced by the project. This can be done by interviewing, gathering knowledge, analysis of data or using workshops. Sometimes, opportunities arise because of changes in market conditions, the project's environment, or other organisational or societal changes. Change requirements and opportunities will change regularly, so they need to be regularly reviewed and adapted.

Measures

- Identifies groups and professional or practitioner affected by change
- Maps group interests
- Identifies change requirements and opportunities regularly
- Adapts to changing interests and situations

4.5.13.3 Develop change or transformation strategy

Description: A change strategy is developed by the professional or practitioner (or emerges and therefore is put together by the individual) to address the envisioned changes or transformations. It will be based upon the intensity and the impact of the change and takes into account the ability to change or the willingness to transform of the organisation, society or people. The timing of changes to align with organisational (or societal) dynamics and opportunities also needs to be considered. The plan is developed through consultation and is regularly updated.

Learning, monitoring and assessing what works and what doesn't, in which situations, is part of the strategy. Changes and transformation do not happen overnight, but usually take a while before value is added. When changes or transformations are more consequential, a stepwise approach is developed so that early successes can be valued and used as incentives for further change. Change plans can sometimes be planned and structured, but can also be focused on group behaviours, on power, on learning, on emergence. There is no one right way to do change, but the professional or practitioner needs to anticipate the change.

Measures

- Identifies societal, organisational and personal change or transformation strategies, recognising, for example, innovators, early adopters, the majority and laggards
- Collaborates with others to validate strategies
- Documents strategies into a comprehensive change plan
- Develops a step-by-step approach if this is required
- Regularly adapts the change or transformation plan to incorporate lessons learned and changes in the project's environment, or in society
- Regularly adapts the strategy because the change has succeeded and benefits have been achieved

4.5.13.4 Implement change or transformation management strategy

Description: Based on the change strategy, a set of possible interventions is planned. These might include work-shops, training, information sessions, pilots, serious games and visioning, but there will also certainly be interventions to be made regarding power and influence and handling resistance. Once a change is made, measures should be taken to sustain the change and to help organisations and professional or practitioner to avoid 'falling back' to old behaviour.

Measures

- Designs a coherent intervention plan
- Implements selected interventions
- Leads or organises workshops and training
- Addresses resistance to change
- Organises and implements mass media interventions
- Uses reinforcement techniques to ensure new behaviour is sustainable

5.0 Professionals & Practitioners Working in Programme Management

The IPMP competence baseline is a comprehensive inventory of competences an professional or practitioner needs to have or to develop to successfully realise programmes. The generic model is applicable in all sectors and industries. However, it does not recommend or include specific methodologies, methods or tools. Appropriate methods and tools may be defined by the organisation, and the professional or practitioner should choose from a wide range of available methodologies, methods and tools for a particular situation.

Of course, the weight of the various competences needed to successfully realise programmes differs between types of programmes (e.g. IT, production, research and development) and industries (e.g.

construction, business services and government). Nevertheless, in every programme, all competences are relevant.

5.1 Managing Programmes

Programmes are organised to achieve change. Changes can be fully or predominantly plannable (e.g. the market entry of a new product), a transition to a new situation (e.g. a fundamental organisational change) or a full transformation (e.g. the transformation to a zero-emission city). The first kind can be tackled as a project or as a programme (depending on complexity and other considerations); the second and especially the third only as a programme. Programmes are far better suited to dealing with uncertainty, volatility and vagueness than projects. Programmes are responsible for either realising benefits directly or for the delivery of outcomes (or capabilities) that help organisations to achieve benefits.

A programme may be undertaken by or within one organisation, by cooperating organisations or by a network of organisations (referred to as 'coordinating organisations'). Having more than one organisation working together in a programme provides additional complexity. But quite often the reason for set-ting up a programme is exactly that to have an effective management mechanism for programmes that run in different organisations.

Programme components can be (sub-) programmes, projects, activities and processes or even teams or departments (referred to as 'components'). A programme is defined as a temporary organisation of interrelated programme components managed in a coordinated way to enable the implementation of change and the realisation of benefits.

Programme management is coordinated management of all components in order to implement change and realise benefits. Each component has its own management; programme management adds the alignment of these separate components focusing on benefits realisation. Programme management is concerned with the application of methods, tools, techniques and competences to a programme. It is performed through processes and includes the integration of the various phases of the programme life cycle.

Programme management differs from project management in several ways. Apart from those that follow from the definition of programmes (change, benefits orientation, link to multiple organisations etc.), programmes often exhibit more complexity than projects in terms of interrelatedness and interdependence of elements (projects and other components, objectives, stakeholders, risks, changes etc.). A common vision and joint values are more important for success than in project management. A collaborative approach, where objectives are defined by co-creation and strong leadership become more important.

Effective programme management has a number of benefits for the organisation and stakeholders. It provides a greater likelihood of achieving the goals and ensures efficient use of resources, satisfying the differing needs of the programme's stakeholders.

5.2 Competences Overview

The IPMP Competence is applicable for the three management domains project management, programme management and portfolio management. Based on the generic model every professional or practitioner has to have a specific set of competences to manage programmes successfully. The

professional or practitioner has to have perspective competences that address the contexts of programmes (i.e. the components), people competences that address personal and social topics and programme competences that address the specific practice competences for managing programmes

5.3 Perspective

The competence area 'perspective' deals with the context of a programme. It defines five competences:

- Strategy
- Governance, structure and processes
- Compliance, standards and regulations
- Power and interests
- Culture and values

5.3.1 Strategy

Definition: The strategy competence describes how strategies are understood and transformed into manageable elements using projects. This competence is therefore defining a performance management system in which projects are seen and managed in light of their alignment with the strategy and the vision, and ensuring it is highly correlated with the mission and the sustainability of the organisation.

Purpose: The purpose of this competence element is to understand the strategy and its strategic processes, and thus enable a certain management perspective (project, programme or portfolio) to manage their programme within the contextual aspects.

Description

This competence describes the formal justification of the programme goals as well as the realisation of benefit for the organisation's long-term goals. This encompasses the discipline of strategic performance management in which an organisation breaks up its strategic goals into manageable elements in order to:

- Achieve beneficial changes in the organisational culture, business systems and processes
- Establish and pursue agreed strategic targets
- Allocate and rank resources
- Inform management of the need to change strategic objectives
- Stimulate continuous improvement.

Strategic plans encompass long-term visions and mid- or short-term strategies and should be aligned with the mission, quality policy and corporate values of organisations. The strategy competence also includes the process of understanding the organisational environment, developing the desired state of benefits and making the right selection of projects and/or programmes within a portfolio. Strategy alignment should therefore convey the organisation's vision and strategy into project goals or programme benefits.

Throughout the strategic alignment processes, professional or practitioner may apply different models for disseminating and managing the strategic goals, e.g. the balanced scorecard, performance matrix, environmental analyses, etc. Thus the professional or practitioner sets a performance management system usually run by critical performance variables, i.e. critical success factors (CSFs) and key performance indicators (KPIs). Hence, each, programme is controlled through a set of CSFs and KPIs to assure the sustainability of an organisation.

Knowledge

- Benefits realisation management
- Critical success factors
- Key performance indicators
- Organisational mission
- Organisational vision
- Difference between tactic and strategy
- Diagnostic and interactive control management systems
- Strategic performance management
- Benchmarking
- Management control systems
- Strategic schools of thought

Skills

- Analysis and synthesis
- Entrepreneurship
- Reflection of the organisation's goals
- Strategic thinking
- Sustainable thinking
- Contextual awareness
- Result orientation

Related competence elements

- All other perspective CEs
- People 5: Leadership
- People 9: Negotiation
- People 10: Results orientation
- Practice 1: Design
- Practice 2: Requirements and objectives
- Practice 11: Risk and opportunity
- Practice 12: Stakeholders

Key Competence Indicators

5.3.1.1 Align with organisational mission and vision

Description: The professional or practitioner knows, understands and can translate the missions, visions and strategies of the coordinating organisations into the programme. The professional or practitioner always needs to ensure that the programme goals are in sync with the mission, policies and values of the coordinating organisations. If the relation between the programme's benefits and organisational purpose is vague, the professional or practitioner still needs to perform periodic checking of the benefits against the purpose written in formal strategic documents. The alignment is usually done

by utilising diagnostic management control systems and formal tools, e.g. critical success factors, success criteria, key performance indicators, etc.

Measures

- Knows the mission and vision of the organisation(s)
- Aligns the programme's goals with mission, vision and strategy by using diagnostic control management systems (top-down approach and pre-set goals)
- Controls whether the programme's objectives and benefits are in sync with the mission, vision and strategy
- Develops and implements measures of strategic alignment (e.g. critical success factors, key performance indicators, etc.)
- Checks whether the programme is helping the organisations to realise the benefits.

5.3.1.2 Identify and exploit opportunities to influence organisational strategy

Description: The professional or practitioner knows the strategy development and implementation process, often done in a top-down fashion by the executive board/management board of an organisation. However, intended strategies are often not realised as the context changes and, while pursuing a certain path, new opportunities and risks are emerging. Therefore, the professional or practitioner not only needs to understand the pre-set strategic goals, but also the tools and methods of questioning these goals and influencing the board to make the necessary improvements. These influences are managed through interactive control systems and by applying a bottom-up approach.

Measures

- Knows the strategy development and implementation process
- Identifies new risks and opportunities which could alter the strategy
- Engages co-workers in questioning the organisational strategy by implementing interactive control management systems (bottom-up approach and stretch goals)
- Identifies strategic improvements
- Influences the strategy development and implementation process by suggesting changes to strategy

5.3.1.3 Develop and ensure the ongoing validity of the business/ organisational justification

Description: The professional or practitioner is able to provide a formal document which states the official reasons for the programme, including the business or organisational benefits that the programme has to help realise. This justification should also explain integration aspects with new components in the programme and should be the basis for the success criteria and benefits the programme should help realise (the scope). The professional or practitioner can create or facilitate, understand, interpret, update and sometimes realise (parts of) the business justification. This should not be a static document, but should be periodically updated throughout the life of the programme and re-assessed for validity. Furthermore, the professional or practitioner monitors or controls constantly, to see whether the programme has redundant or strategically obsolete elements and perform the proper alignment, even if this might mean terminating or re-scoping the programme.

Measures

- Understands and defines the business and/or organisational justification
- Identifies objectives needed in the programme to generate the planned benefits

- Validates and sells the business and/or organisation justification to the sponsors and/or owners of the programme or its components
- Re-assesses and validates the justification within the higher context
- Scans to determine whether there is a need to terminate or change the programme or its components because of redundancy or obsolete strategic importance

5.3.1.4 Determine, assess and review critical success factors

Description: The professional or practitioner is able to discern, define, interpret and prioritise critical success factors (CSFs) which directly relate to the programme. CSFs are directly connected with the organisational objectives and business objectives of the programme. Therefore by achieving the programme's benefits, the organisation fulfils strategic goals, tactical and operational objectives, and ultimately organisational success. The professional or practitioner can grasp both the formal and informal context of the factors and understand their influence on the final outcome of the programme. The relative importance of the success factors may change, due to both contextual factors and the dynamics of the programme itself. Personnel changes, both programme-internal and programme-external, may have influence, too. Therefore the professional or practitioner should periodically be checking and assessing the actuality and relative importance of the CSFs and when necessary making changes in order to sustain success, even if this means the premature end of the programme.

An example of a CSF, in a programme to develop a national park which stretches over several towns and provinces, is 'alignment of the programme's objectives and timing with the objectives and timings in the government of the towns and provinces'.

Measures

- Derives and/or develops a set of critical success factors (CSFs) for the strategic objectives
- Uses formal CSFs for strategic alignment, but also understands their informal context
- Involves subordinates to question the organisation strategy while developing CSFs (interactive management control)
- Uses the CSFs for strategic alignment of or within the programme
- Uses the CSFs for informing stakeholders
- Uses the CSFs for developing incentives/rewards for the component
- Re-assesses CSF realisation within the strategic context

5.3.1.5 Determine, assess and review key performance indicators

Description: The professional or practitioner is able to manage related key performance indicators (KPIs) for each CSF. KPIs are the core of many strategic performance management systems and are used for measuring or indicating the fulfilment of the CSF and achieving success. Usually KPIs are either pre-set by the organisation or developed by the professional or practitioner using best practices or models, e.g. the balanced scorecard. KPIs can be used as leading measures (preceding a strategic event or milestone), lagging measures (following a strategic event or milestone) or real-time dashboards.

Throughout the programme, KPIs may change, due to both contextual factors and the dynamics of the programme itself. Personnel changes, both internal and external to the programme, may also influence KPIs. Therefore the professional or practitioner should periodically be checking and assessing the actuality and relative importance of the KPIs and when necessary making the required changes in order to sustain success.

KPIs should also involve soft aspects, such as motivation, communication within the team, personal development of team members, etc., which reflect the strategic objective, i.e. the benefit one wants to achieve. Moreover, KPIs should cover a broad range of other aspects, varying from adhering to certain governance and support processes (for instance on decision making, reporting, acquiring resources and administrative processes), meeting standards and regulations, to complying with cultural norms and values, both of the organisation and of the wider society. An example of a KPI for the CSF mentioned above is: 'The objective and timing of the programme is signed off by a majority of governments of the cities and provinces.'

Measures

- Derives and/or develops a KPI (or set of KPIs) for each critical success factor
- Knows the use of leading, lagging and real-time measures when developing KPIs
- Uses KPIs for managing strategic performance
- Uses KPIs to influence stakeholders
- Uses KPIs for developing personal development plans
- Uses KPIs for developing an incentive/reward system
- Re-assesses programme configuration by employing KPIs and performing benefits realisation management

5.3.2 Governance, structures and processes

Definition: The governance, structures and processes competence element defines the understanding of and the alignment with the established structures, systems and processes of the organisation that provide support for programmes, and influence the way they are organised, implemented and managed. The governance, structures and processes of an organisation may comprise both temporary systems (such as programmes) and permanent systems (such as project portfolio management systems, financial/administrative systems, supporting systems, reporting systems, and decision-making and auditing systems). Sometimes these systems form the strategic reason for programme, for example, when a project or programme is initiated for the purpose of improving business processes or establishing new systems.

Purpose: The purpose of this competence element is to enable the professional or practitioner to effectively participate in, and manage the impact of, governance, structures and processes on programmes.

Description: Structures and processes are an essential part of the governance system of any organisation. Alignment with structures and processes means the ability to use roles and responsibilities, processes and policies to ensure that programmes achieve their objectives and strategic corporate goals. To manage programmes in line with the established organisational structures and processes requires a basic understanding of the various types of initiatives and how a project-oriented organisation works, as well as the benefits associated with management by projects. It includes the alignment with permanent processes related to the management of projects, programmes and portfolios. Most project-oriented organisations have various types of supporting structures and processes for projects, programmes and portfolios. In the domain of programme management, the professional or practitioner may be called upon to provide programme metrics that track directly to longterm benefits realisation, and to incorporate structures and processes across the projects and non-project activities inside the programme.

Examples of supporting structures and processes are line functions such as human resources (HR), finance and control and information technology (IT). Mature project organisations may also provide more dedicated support to project and programme management through a project management office (PMO). To be competent in structures and processes also means the ability to review and apply feedback and lessons learnt from previous projects and programmes. A key challenge is to balance the use of compulsory and optional structures and processes for optimal effect and benefit to the programme.

Knowledge

- Basic principles and characteristics of management by projects
- Basics of portfolio management
- Basics of organisational design and development
- Formal organisation and informal interrelations of project, programme and portfolio management (staff, line, etc.) in the organisation
- Organisation and business theories

Skills

- Leadership
- Reporting, monitoring and control
- Communication planning and executing
- Design thinking

Related competence elements

- All other perspective CEs
- Practice 1: Design
- Practice 5: Organisation and information
- Practice 7: Finance
- Practice 8: Resources
- Practice 9: Procurement and partnerships
- Practice 10: Plan and control
- Practice 12: Stakeholders

Key Competence Indicators

5.3.2.1 Know the principles of programme management and the way they are implemented

Description: The professional or practitioner knows the programme management concept and the way it is implemented within the coordinating organisations. The professional or practitioner knows the programme goals/benefits, required programme inputs, outputs and outcomes, and understands the benefits expected from the programme in regard to the portfolio(s). Therefore the professional or practitioner knows required inputs and outputs and understands how the programme impacts on portfolio output indicators (KPIs). The professional or practitioner knows how to handle the interfaces and dependencies between the different components within the programme and between the programme and neighbouring projects or programmes, and takes these dependencies into consideration in order to balance the programme. The professional or practitioner also knows the vertical (for example, with the portfolio manager or board committee) and horizontal (for example, with other programmes) lines of communication as part of the overall coordination process within a portfolio. When a portfolio setting is lacking, the professional or practitioner is able to set up a decision making structure that is fit for purpose for the programme.

Measures

- Defines a programme and has a deep understanding of programme management
- Explains characteristics of a programme (goals, inputs, outputs, outcomes, benefits) and identifies its dependencies to a respective portfolio
- Is able to distinguish different ways to organise a programme's governance, and is able to discuss the impact of these different ways
- Explains the concept of programme management (dependencies between projects included in the programme; programme organisation structures; vertical and horizontal communication links)
- Identifies a respective portfolio and has general understanding of portfolio management processes
- Knows variables of aligning with a portfolio – critical success factors (CSFs) and key performance indicators (KPIs)
- Filters/funnels communication within a respective portfolio in order to successfully manage a programme

5.3.2.2 Know and apply the principles of project management and the way they are implemented

Description: The professional or practitioner understands the concepts of projects and of management by projects and can explain the difference between different types of organisation settings, e.g. functional, matrix and project-oriented organisation, and knows how to optimally align performance with the current organisational setting. The professional or practitioner can explain the characteristics and principles on which management by projects is based and can set up a project-oriented environment. Furthermore, the professional or practitioner is aware of the maturity concept of project-oriented organisations covering organisational competences, project and programme competences and finally professional or practitioner competences.

Measures

- Defines and recognises a project in practice and has a deep understanding of project management principles
- Explains characteristics of a functional, project and matrix oriented organisation and recognises one in practice
- Explains and practises the concept of management by projects
- Perceives and sets up management by projects concepts within the organisation
- Explains and identifies the current maturity level of an organisation

5.3.2.3 Know the principles of portfolio management and the way it is implemented

Description: The professional or practitioner understands general portfolio management and the way it is implemented. Therefore the professional or practitioner knows the portfolio criteria and required inputs and outputs, and understands how the programme impacts on the portfolio. The professional or practitioner is able to discover different constraints within the portfolio and can take these constraints into account to harmonise resource utilisation of the programme. The professional or practitioner is able to filter and/or funnel the communication channels with the respective portfolio in order to positively influence the programme performance. If a portfolio structure is lacking, the professional or practitioner knows the risks and is able to handle them. If a programme is related to different portfolios, the professional or practitioner is capable of handling the risks related to this.

Measures

- Defines and identifies a portfolio and has a general understanding of portfolio management processes
- Knows characteristics of a portfolio – critical success factors (CSFs) and Key Performance Indicators (KPIs)
- Knows in general the concept of managing a portfolio (organisational structures and processes)
- Knows the risks when a portfolio management system is lacking, and is able to mitigate these risks
- Is able to manage information streams and decision making if a programme is in different portfolios, either in one organisation or a network of organisations.
- Filters/funnels communication within a respective portfolio in order to successfully manage a programme

5.3.2.5 Align the programme with project supporting function

Description: The project supporting function (being a project or programme office, a project management office or the like) provides multifaceted support to the programme and / or the professional or practitioner managing the programme in relation to organisation, planning, reporting, meeting management, documentation, etc. Understanding the project supporting processes and functions, and using integrating them into the daily work, is essential for the professional or practitioner. To ensure the necessary support from the project supporting function, the professional or practitioner requires a basic understanding of relevant contact people within the project supporting function and how to establish and maintain good relations with them.

Measures

- Knows the project supporting function of the parent organisation(s).
- Uses the project supporting function of the parent organisation(s) for efficient support of the programme
- Knows the boundaries of the project supporting function, and the consequences for the programme
- Establishes and maintains relations with the project supporting function
- Applies project supporting processes required by the coordinating organisation(s)

5.3.2.5 Align the programme with the organisation's reporting and decision making structures and quality management processes

Description: The success of a programme is dependent on the right decisions made on the right level of the coordinating organisations at the right time. Every decision should be prepared, presented, accepted, recorded, communicated, and finally implemented. Formal and informal routines and special rules for decision making beyond the professional or practitioner competence and responsibility exist in each organisation. Therefore, the professional or practitioner requires a deep understanding of the decision making structure and processes, and the ability to structure and manage the programme and the related projects accordingly. Periodic reporting of the actual status is essential for trust by its stakeholders, and to assure traceability of the progress. Different programme stakeholders have different reporting needs (information requirements, method of delivery, reporting frequency) which the professional or practitioner must understand and take into account. The coordinating organisations will have different forms of quality assurance which relate to projects and programmes (for example, system assurance, project assurance, finance assurance, technical assurance, security assurance, etc.). The

professional or practitioner has to take these into account in devising a quality assurance plan for the programme and its component projects, to understand which project areas could become quality assurance objects and to know who should be involved in assurance activities.

Measures

- Identifies the coordinating organisation's routines and special rules for decision making in cases beyond his or her competence and responsibility
- Aligns the communication in projects with the needs of the coordinating organisations (what kind of information and how detailed, to whom and how often)
- Applies the reporting standards of the coordinating organisations to the programme, using specific tools and methods, when applicable
- Knows the coordinating organisation's forms of quality assurance when setting up a reporting system to superior levels in the coordinating organisations.

5.3.2.6 Align with human resource processes and functions

Description: The human resource function provides multifaceted support to the programme in relation to team member contracts, temporary employment, training, salaries, incentives, stress, wellbeing, ethics, and team entries and withdrawals. Understanding the human resource processes and functions may increase the influence on resource availability and quality in terms of adequate competences. To ensure the necessary support from the human resource function, the professional or practitioner needs to establish and maintain relations with relevant people.

Measures

- Uses the human resource function for acquiring staff with the required competences
- Knows the boundaries between the temporary organisation and the human resource function
- Establishes and maintains relations with the human resource function
- Applies human resource processes to provide training and other competence development programmes

5.3.2.7 Align with finance and control processes and functions

Description: The finance and control function of an organisation is often established as a line function providing mandatory rules, procedures and guidelines. Understanding these rules and how to utilise them effectively and efficiently are crucial for the professional or practitioner for successful funding, monitoring and/or reporting on financial topics. The finance and control function of an organisation often serves as a support function, offering a variety of utility functions for the professional or practitioner such as how to apply for, justify, manage and report on financial resources and how to manage, administer, distribute, monitor and manage finances. The professional or practitioner needs to know various financial models for funding (public, private, public private partnerships, subsidies, commercial, etc.) endorsed by the coordinating organisations. To ensure the necessary support from the finance and control function, the professional or practitioner can benefit from establishing and maintaining relations with the relevant contact people within the finance and control function.

Measures

- Knows the characteristics of a finance and control function
- Distinguishes between the compulsory and optional utilities of the finance and control function
- Monitors and controls whether rules, guidelines and other financial utilities are effectively and efficiently used in projects to the benefit of the programme

- Communicates and reports the status and trends of financial tasks clearly and objectively

5.3.3 Compliance, standards and regulations

Definition: The compliance, standards and regulations competence element describes how the professional or practitioner interprets and balances the external and internal restrictions in a given area such as country, company or industry. Compliance is the process of ensuring adequate adherence to a given set of norms. Compliance requirements operate on a spectrum from voluntary and informal, to mandatory and formal. Standards and regulations influence and define the way programmes and the components should be organised and managed to be feasible and successful. Standards and regulations address compliance with requirements that include legislation and regulations, contracts and agreements, intellectual property and patents, health, safety, security and environmental protection and professional standards.

Purpose: The purpose of this competence element is to enable the professional or practitioner to influence and manage the alignment of the relevant standards and regulations within the permanent organisation; the relevant sources of legislation and the standards and norms of both the organisation and the wider society, and to improve the organisation's approach to these areas.

Description: Programmes face different restrictions and requirements for developing a product or service beside the effect of the production and project management processes. These restrictions correspond to the geographical, social and professional specifics of the programme and its external environment in the form of laws, standards and regulations. Before starting a programme, the professional or practitioner needs to analyse the scope and configuration of the programme and seek out the relevant standards and regulations that will have a direct or indirect influence on it. The relevant standards and regulations should be considered potential risks and opportunities, which need management attention. Compliance with relevant standards and regulations may affect the organisational structures, processes and culture. In the domain of programme management, the professional or practitioner may be called upon to institute processes that directly address standards and regulations across multiple projects and non-project work tracks.

This competence element includes benchmarking and improving the organisational project management competences. Developing programme management competence is a constant process, a part of an organisation's continuous improvement strategy and the duty of every professional or practitioner. It involves learning and improving strategies for influencing the project management cultures in organisations. The professional or practitioner should use this competence to demonstrate how all parts and layers of the management system might be improved. By increasing the project, programme or project portfolio management competence, the organisation increases its ability to choose and perform successful projects, programmes and portfolios and thus achieve sustainability of an organisation.

Knowledge

- Law regulation systems involved
- Autonomous professional regulation
- Professional standards and norms, e.g. IPMA standards
- ISO standards (e.g. ISO21500 guidance on project management or other standards of ISO/TC258)
- Sustainability principles

- Benchmarking theory
- Benchmarking tools and methods
- Knowledge management
- Codes of ethics
- Codes of business conduct
- Differences between law theories

Skills

- Critical thinking
- Benchmarking
- Adapting standards to specific organisations
- Communicating standards and regulations
- Leading by example

Related competence elements

- All other perspective CEs
- People 5: Leadership
- People 9: Negotiation
- Practice 1: Design
- Practice 2: Benefits and objectives
- Practice 5: Organisation and information
- Practice 6: Quality
- Practice 11: Risk and opportunity

Key Competence Indicators

5.3.3.1 Identify, and ensure that the programme and each component within it) complies with all relevant legislation

Description: The professional or practitioner knows the legal policies of an organisation and is able to implement them in a pro-gramme. Furthermore the professional or practitioner knows which parts of law regulations (civil, criminal, labour, intellectual property, etc.) and common good practices are relevant to the programme. The individual has to ensure that programme organisation operates within the law and is able to recognise or to find out which projects/activities have special legal requirements and what law principles apply to the programme. The professional or practitioner is also able to recognise the unknown legal issues which need to be considered and therefore should know how to support in the formal procedures for obtaining specialist advice when necessary. Furthermore, the professional or practitioner knows which requirements of regulatory agencies concerned with the programme scope are relevant to the programme and which inspection procedures should be applied. This is especially important in programmes running across different cultures and different legal systems. If a programme is being run globally, the professional or practitioner needs to integrate all of the regulatory requirements across the whole programme.

Measures

- Acknowledges the legal context and its applications
- Filters out and uses the relevant law regulation
- Identifies risks in the regulations in relation to the programme and consults the experts
- Acknowledges and manages the regulatory agencies as stakeholders

- Controls whether procurement routes of a programme are aligned with the regulations
- Monitors and controls whether the programme organisation is performing according to legislative context and can do proper adjustments

5.3.3.2 Identify, and ensure that the programme (and each component) complies with all relevant health, safety, security and environmental regulations (HSSE)

Description: The professional or practitioner knows which of the health, safety, security and environmental (HSSE) regulations are relevant to a programme. Further, the professional or practitioner is able to recognise any potential HSSE issues in which special consulting is needed. The professional or practitioner is able to determine how programme activities or programme products can affect the team members and stakeholders who will have use of the benefits, and how to control whether HSSE protective measures have been applied. The professional or practitioner understands how to guarantee balance of economic, social and environmental aspects of the programme to meet the requirements for sustainable development. Moreover the professional or practitioner is able to detect the safety and security risks to the programme, check whether they have been managed and choose and use relevant tools to increase the safety and security levels of the programme organisation. Finally it is very important that the professional or practitioner understands that HSSE regulations often vary in different countries/cultures.

Measures

- Controls whether HSSE regulations have been implemented
- Controls whether HSSE context has been implemented in the project/programme goals
- Controls risks arising from implementing HSSE measures to the programme organisation
- Controls a safe, secure and healthy environment for the programme organisation
- Uses HSSE for programme sustainability
- Monitors and controls whether the programme organisation is performing according to HSSE context

5.3.3.3 Identify, and ensure that the programme (and each component within it) complies with all relevant codes of conduct and professional regulations

Description: The professional or practitioner is able to assure the programme integrity by identifying relevant professional regulations for the context in which the programme operates and checking whether the programme organisation conforms to them. Each context has a specific code of conduct (ethical norms written down in a formal document) and trading customs which the professional or practitioner needs to understand before making a health check of the programme organisation. Sometimes the business conduct and the trading customs are prescribed by law. Moreover they are often directly tied with procurement procedures and, if not understood, could pose a high risk for specific projects in the programme. Therefore, by identifying and integrating different codes of business conduct the professional or practitioner assures the programme organisation runs with integrity within legit boundaries.

Measures

- Sustains programme professional integrity
- Controls the integration of appropriate code of business conduct for the particular context (public administration, civil engineering, information technology, telecommunication etc.) within the programme organisation
- Controls the integration of ethical principles within the programme organisation

- Identifies and controls the integration of the tacit trading laws not set by the code
- Identifies and controls the integration of different procurement routes with the code of business conduct
- Works to prevent violation of the code by the project team members

5.3.3.4 Identify, and ensure that the programme complies with relevant sustainability principles and objectives

Description: The professional or practitioner is able to assess the impact of the programme on the environment and society. Realising his or her responsibility, the professional or practitioner researches, recommends and applies measures to limit or compensate negative consequences. The professional or practitioner follows (or even exceeds) guidelines and rules on sustainable development coming from within the organisation and from the wider society, and is able to realise a workable balance between the demands of society, impacts to the eco-environment and the economy.

The professional or practitioner understands that sustainability aspects, measures and attitudes often vary in different countries and cultures.

Measures

- Identifies the social and environmental consequences of the programme
- Defines and communicates the sustainability targets for the programme and its outcomes
- Aligns objectives with organisational strategy for sustainability
- Balances the demands of society, the environment and the economy (people, planet, profit) with programme processes and products
- Encourages the development and diffusion of environmentally friendly technologies

5.3.3.5 Assess, use and develop professional standards and tools for the programme

Description: The professional or practitioner is able to comply with and utilise top professional standards which relate to pro-programme projects/activities. In doing so, the professional or practitioner understands the peculiarities of the pro-programme and its nature of business and take them into account to while checking whether projects are applying the appropriate tools, methods and concepts (e.g. programme life cycle, stakeholder management, strategic risk management, etc.). Moreover, the professional or practitioner understands that usually the good practices in programme and project management come from a combination of the world leading standards and personally developed tools and methods. Therefore the professional or practitioner always tries to find the best recipe for managing the programme by utilising top professional standards (one or several) and adding and developing further improvements to the programme and project design.

Measures

- Identifies and controls whether the relevant professional standards are being used within the programme
- Identifies the specifics and manages the risks arising from standards applied across the programme
- Compares and assesses best practice with the current status quo in the programme organisation
- Develops and implements custom-made standards
- Disseminates the acquired know-how throughout the organisation
- Controls whether new improvements are being practised within the programme organisation

5.3.3.6 Assess, benchmark and improve the organisational programme management competence

Description: The benchmarking programme management competence is a process of continuous improvement by comparing the organisation's programme management processes with those which are identified as good practice. The good practices can often be identified as those that apply in world class organisations. Usually these organisations are promoted as top programme management performers and have won internationally recognised programme management awards. The purpose of the benchmarking process is to improve organisational performance by acquiring the know-how of a superior organisation. Organisational benchmarks often follow a staged maturity model of organisations defining what structures, processes, methods and professional or practitioner skills an organisation has to fulfil to reach a certain maturity level. Benchmarking can be conducted on an internal basis, such as against different projects within an organisation; on a competitive basis, such as with a direct competitor; and on a functional or generic basis, such as with an organisation not competing on the same market or within the same industry. Professional or practitioner should always try to improve their ability to manage programmes and projects in a way that contributes to the organisation's strategic goals. Sometimes there can be little correlation of the benefits with strategy. Nevertheless, the professional or practitioner needs to advise the management board about possible improvements in the strategy. Finally, improvements made should be disseminated throughout both the programme and permanent organisation by disseminating the newly acquired know-how.

Measures

- Identifies and assesses the relevant deficient areas of organisational competence in programme management
- Sets relevant benchmarks for the deficient areas
- Identifies the benchmarking basis and best practice
- Benchmarks against the best practice
- Identifies and integrates measures for the needed improvements
- Monitors and controls implementation of the identified measures and assesses the benefits gained
- Disseminates the acquired know-how throughout the organisation
- Controls whether benchmarked improvements are being practised within the programme organisation

5.3.4 Power and interest

Definition: The power and interest competence element describes how the professional or practitioner recognises and understands informal personal and group interests and the resulting politics and use of power. This competence element defines how professional or practitioner participating in programmes should recognise how informal influences (resulting from personal and group ambitions and interests, and modified by personal and group relations) relate with the programme context. These informal influences differ from formal interests (as for instance formalised in a business justification) that derive from the organisation's strategy or from standards, regulations, etc.

Purpose: The purpose of this competence element is to enable the professional or practitioner to use power and interest techniques to achieve stakeholder satisfaction and deliver the agreed outcomes within the constraints of time and budget.

Description: Power is the ability to influence the behaviour of others. A substantial part of influence comes from informal power that is that part of power which is not 'solidified' into formal roles, structures or processes. This informal aspect of power is often motivated by personal ambitions and interests. Stakeholders usually also have personal ambitions and interests and they will often try to use their influence to suit the processes and/or outcomes of the programme to their interests. These actions may help or thwart the programme. Understanding and being able to influence and use these informal personal interests, and the resulting politics, is essential to ensure programme success.

Apart from cultural aspects and values, each person has his or her own style and personality. Professional or practitioner approach will influence the way power is exercised. In the domain of programme management, the professional or practitioner may be called upon to develop and maintain strong leadership capabilities in order to exert significant influence over the projects and the permanent organisation.

Interest is an attraction to a specific topic or desired outcome, for instance a certain desire toward or away from an object, situation, position, outcome or opinion. People often try to realise their interests by exercising their influence. Interest is often pursued through formal and informal relations, which can result in group influence. Groups may consist of informal groups of colleagues or friends, or formal structures such as departments, councils and boards. In formal groups, care should be taken to distinguish the formal role or power from the informal influence, which may come from other power sources. Examples of the informal power include referent or expert power.

Knowledge

- Formal organisation (staff, line, etc.) versus informal structures
- Informal decision making processes
- Formal and informal power and influence
- Difference between power and authority
- Reach of influence
- Sources of interests
- Conformity
- Bases of power
- Project psychology
- Organisational culture and decision making
- Power theories

Skills

- Observing and analysing psychological processes
- Recognising and using influence
- Using power when appropriate
- Discovering values
- Revealing stakeholders' interests

Related competence elements

- All other perspective CEs
- People 2: Personal integrity and reliability
- People 3: Personal communication
- People 4: Relations and engagement

- People 5: Leadership
- People 9: Negotiation
- Practice 1: Design
- Practice 12: Stakeholders

Key Competence Indicators

5.3.4.1 Assess the personal ambitions and interests of others and the potential impact of these on the project

Description: People have goals and ambitions, for example career goals, or a desire to improve society or improve themselves. They also have interests that are related to these ambitions and influence the interests they have in the project and its success. Part of their ambitions and interests will often be congruent with their present formal position, that is, performing the tasks that they are formally required to do may help realise their ambitions and interests. Then again, their ambitions and interests may go beyond (or even be partly at odds with) the formal interests of their formal position. Being able to identify the ambitions and personal interests of people (stakeholders, team members or colleagues) is often necessary in order to work with them in an efficient and effective way.

Measures

- Acknowledges and assesses the personal ambitions and interests of relevant people or groups
- Acknowledges and assesses the differences between personal and organisational interests and goals
- Is able to assess the impact of personal ambitions and interests on the programme
- Is able to steer and use personal ambitions and interests to the benefit of the programme

5.3.4.2 Assess the informal influence of professional or practitioner and groups and its potential impact on the project

Description: Informal influence has to be distinguished from the formal influences as laid down in organisational documents and processes. People may have influence for many reasons and through many different means. Apart from the formally agreed-on legitimate power (of e.g. department heads, executives, judges and school teachers) there are many other bases of power, for instance coercive, reward, referent, and expert power. Relations are a strong base of power, too. Influencing decisions through use of personal relations is a common and often effective way. There is often a marked difference in the ability of people or groups to influence certain kinds of decisions, or decisions taken in a specific knowledge area or part of the organisation ('reach' of influence). Every person and group influence has its own reach, and it is important to know this reach.

Measures

- Acknowledges and can estimate the influence, power and reach of certain professional or practitioner in various settings
- Is able to discern group affiliations and relations relevant to the programme
- Is able to assess the impact of informal relations and influences on the programme
- Is able to steer and use informal relations and influences to the benefit of the programme

5.3.4.3 Assess the personalities and working styles of others and employ them to the benefit of the project

Description: Everybody is unique, and will act and operate in his or her specific way. Style is also influenced by cultural factors, as discussed in 'Culture and values'. Different people may have the same ambitions and/or interests, yet may use a different style in using their influence. Other people may display the same behaviour or style, yet differ in ambitions and/or interests. The professional or practitioner has to acknowledge the differences while working with professional or practitioner and groups in an efficient and effective way.

Measures

- Acknowledges the differences between behavioural style and personality
- Acknowledges the differences between cultural aspects and personality
- Is able to assess the impact of others' personal working styles on the programme
- Is able to steer and use others' personal working styles to the benefit of the programme

5.3.5 Culture and Values

Definition: The culture and values competence element describes the professional or practitioner's approach to influence on the organization's culture and values and the wider society in which the programme is situated. It also includes the acknowledgement by the professional or practitioner participating in or leading a programme of the consequences of these cultural influences for the programme and how to incorporate this knowledge in its management. Culture may be defined as a set of related behaviours within a community, and the importance that professional or practitioner within the community attach to it. Values may be defined as a set of concepts on which the professional or practitioner in the community base their actions. Explicit definitions of values might include codes of ethics. Many organisations also describe corporate values explicitly in their strategy.

Purpose: The purpose of this competence element is to enable the professional or practitioner to recognise and integrate the influence of internal and external cultural aspects on the programme approach, objectives, processes, sustainability of the outcomes, and agreed outcomes.

Description: Organisations are social systems, where personal behaviour is embedded in a social context of shared values, visions, norms, symbols, beliefs, habits, goals, etc.; in short, a culture. This culture has formal, explicit origins and aspects (such as the organisation's explicit mission and corporate values) as well as informal, more implicit aspects (such as beliefs, common practices, etc.). Moreover, every organisation operates in a society, which also has a specific culture (and possibly subcultures) including values, norms, symbols, beliefs, habits, etc. All these cultural aspects affect the way the people within that society, organisation, and programme interact with each other and all other internal and external stakeholders. Programmes are often integral parts of the parent organisation(s) and at the same time programmes are temporary organisations, which need their internal culture to be aligned with external cultures (external adaptation and internal integration). In the domain of programme management, the professional or practitioner may be called upon to establish visible demonstrations that recognise and celebrate the extant culture and values in order to maintain a cohesive set of behavioural norms within the programme.

Culture and value alignment is even more crucial for programmes that extend across different societies, organisations or groups, thereby forming a multicultural environment. Before starting a programme, and periodically after that, the professional or practitioner needs to acknowledge the relevant culture(s) within the internal and external context of the programme and the organisation. The professional or practitioner has to align (and periodically re-align) the programme's culture to these in order to reach the goals and

objectives in the most effective and efficient way. If available, results of researches, internal or external standards, regulations or guide-lines (e.g. governance principles, codes of conduct) for aligning the cultures may be used. Programmes are sometimes explicitly set up to change organisational culture and value sets. Lessons learned at the end of a programme could be used to improve the culture alignment in future projects and programmes.

Knowledge

- Relevant cultural traits, values, norms and admissible behaviour
- Organisational mission and vision
- Mission statements
- Corporate values and policies
- Quality policies
- Ethics
- Corporate social responsibility (CSR)
- Green project management
- Theories about culture

Skills

- Values awareness
- Cultural awareness
- Respect for other cultures and values
- Aligning to and working within different cultural environments
- Dealing with issues related to cultural aspects
- Bridging different cultures and values to achieve the project, programme or portfolio objectives

Related competence elements

- All other perspective CEs
- People 2: Personal integrity and reliability
- People 3: Personal communication
- People 4: Relations and engagement
- Practice 1: Design
- Practice 6: Quality

Key Competence Indicators

5.3.5.1 Assess the implication of culture and values of the relevant context

Description: All programmes are embedded in a society (frequently even in more than one). The society's values and unwritten rules can deeply influence the way in which communication is executed and decisions are made. It can also influence how transgressions from the common norm are judged and dealt with; it can define or influence working hours, and how, when, where and with whom information, office space and meals can be shared, etc. The professional or practitioner needs a working knowledge of the cultural basis, values and norms of the society or societies in which the project takes place. The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the programme, take these into account in the approach and periodically review them.

Measures

- Acknowledges the cultural values, norms and demands of the relevant context of the programme
- Acknowledges the implications of cultural values, norms and demands for the programme
- Works according to cultural demands and values without compromising personal values
- Recognises ways in which it is required to deviate from the culture and values of the society, in order to achieve the required benefits

5.3.5.2 Align the programme with the formal culture and corporate values of the coordinating organisations

Description: All programmes need to be aligned with the values of the organisations and have to follow the formal cultural rules and demands of related functional departments or support units, and the culture of superordinate initiatives and strategic decision making bodies. Sometimes the espoused values are written down in one or more documents (for instance, mission statement, quality policy, corporate values). The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the programme and take these into account in the approach. Moreover, the professional or practitioner needs to be sure that the programme supports the sustainable development of the organisation, which also includes corporate social responsibility (CSR). CSR is a lever of control in complying with legal and non-governmental regulations, professional standards and other ethical and international norms. By CSR, if practised in the right way, an organisation encourages a positive impact through its activities on the environment, consumers, employees, communities, stakeholders and all other members of the society.

Measures

- Acknowledges and respects the organisation's formal norms and demands
- Knows the organisation's corporate values and mission
- Knows the quality policy of an organisation
- Acknowledges the implications of formal norms, demands, corporate values and mission and quality policy for the programme
- Recognises in which ways it is required to deviate from the culture and values of the organisation, in order to achieve the required benefits
- Acts sustainably by practising corporate social responsibility

5.3.5.3 Assess the implications of informal culture and values of the coordinating organisations

Description: All programmes are linked to an organisation (or more than one) with its own informal culture. While the formal aspects of the organisational culture can have a significant influence, many more aspects, such as artefacts and assumptions, also influence an organisation's culture or subcultures. Artefacts include its architecture, furniture, dress codes, office jokes, etc. Assumptions are deeply embedded, usually unconscious behaviours, such as the way people address and treat each other (including subordinates and managers), how problems and challenges are dealt with and the tolerance for mistakes or irregular behaviour, all resulting from the history and cultural background of the organisation, its employees and its management. The professional or practitioner should analyse the cultural basis of the organisation(s) for and in which the programme takes place. The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the programme and take these into account in his or her approach.

Measures

- Acknowledges, analyses and respects the informal culture and values of the organisation(s)
- Acknowledges the implications of the organisation's informal culture and values for the programme
- Works in conformity with the organisation's informal values and norms
- Recognises how it may be required to deviate from the informal culture and values of the organisation, in order to achieve the required benefit

5.4 People

The competence area 'people' deals with the personal and social competences of the professional or practitioner. It defines ten competences:

- Self-reflection and self-management
- Personal integrity and reliability
- Personal communication
- Relations and engagement
- Leadership
- Teamwork
- Conflict and crisis
- Resourcefulness
- Negotiation
- Results orientation

5.4.1 Self-reflection and self-management

Definition: Self-reflection is the ability to acknowledge, reflect on and understand one's own emotions, behaviours, preferences and values and to understand their impact. Self-management is the ability to set personal goals, to check and adjust progress, and to cope with daily work in a systematic way. It includes managing changing conditions and dealing successfully with stressful situations.

Purpose: The purpose of this competence element is to enable the professional or practitioner to control and direct his or her behaviour by acknowledging the influence of his or her personal set of emotions, preferences and values. This enables effective and efficient use of the professional or practitioner's resources and leads to positive work energy and a balance between inside and outside work.

Description: An intrinsic set of emotions, preferences and values guides all our decisions and actions. Being aware of and reflecting on this set and its impacts on behaviour offers you the opportunity to lead yourself. Reflecting on personal values and behaviour, seeking feedback and being aware of the professional or practitioner natural primary reactions opens up the possibility of changing and improving behaviour. Being able to control primary reactions supports consistent behaviour, decision-making, communication and the leading of others. Adopting a systematic and disciplined approach to coping with daily work means managing how to spend time in order to accomplish prioritised objectives. Increasing the work efficiency does not mean working harder, but enables the professional or practitioner to achieve results to a higher level of satisfaction and motivation. The professional or practitioner works autonomously and independently from external influences, using opportunities to apply lessons learned.

Knowledge

- Reflection and self-analysis techniques
- Stress management of self and others
- Relaxation techniques and methods
- Pace of work
- Feedback rules and techniques
- Prioritisation techniques
- Personal time management
- Checks of progress
- Formulation of objectives (e.g. SMART-method)
- Effectiveness theories

Skills

- Awareness of own work styles and preferences
- Awareness of instances that lead to personal distractions
- Self-reflection and self-analysis
- Controlling emotions and focusing on tasks, even when provoked
- Self-motivation
- Delegating tasks
- Setting meaningful and authentic professional or practitioner goals
- Carrying out regular checks of progress and results
- Dealing with mistakes and failures

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

5.4.1.1 Identify, and reflect on the ways in which own values and experiences affect the work

Description: To identify and reflect personal values and passions the professional or practitioner has to acknowledge and reflect on his/her intrinsic set of opinions, standpoints, ideals and ethical values. This is the basis for consistent decisions and actions. Personal experience has a strong influence on how the professional or practitioner makes sense of situations and people. His or her personal experience of how the world works and how people behave influences the way the professional or practitioner thinks and acts. By understanding the personal sense-making processes, the professional or practitioner can identify why his or her interpretation might differ from someone else's, and so reduce the effect of bias. The opposite is to neglect the influence of experience and expect that everyone sees the 'reality' as the professional or practitioner does.

Measures

- Reflects on own values
- Uses own values and ideals to shape decisions
- Communicates own principles and personal demands
- Expresses and discusses own experience
- Puts own experience in perspective
- Uses own experience to build hypotheses about people and situations

5.4.1.2 Build self-confidence on the basis of personal strengths and weaknesses

Description: Being self-aware includes reflection on personal strengths and weaknesses. The professional or practitioner is aware of what the professional or practitioner is good at and passionate about and which tasks should be delegated or left to others. Knowing his or her personal talents and accepting limitations creates a feeling of personal worth. The professional or practitioner demonstrates self-confidence by relying on personal capacities and capabilities. The opposite is to remain troubled about your person or personality, continuing to doubt your talents and potential and overreacting if others impose on your personal weaknesses.

Measures

- Identifies own strengths, talents, limits and weaknesses
- Leverages strengths, talents and passions
- Identifies solutions to overcoming personal weaknesses and limitations
- Maintains eye contact even in stressful situations
- Accepts setbacks without losing confidence

5.4.1.3 Identify, and reflect on, personal motivations to set personal goals and keep focus

Description: Knowing one's personal motivations enables the professional or practitioner to set personal goals that give direction and release energy. The professional or practitioner knows what drives him or her and can transform this into personal goals. The professional or practitioner has control over his or her emotions, even when provoked. The opposite is to 'go with the flow', live life as it comes and refrain from giving a direction. Once the goals are set, the professional or practitioner has a diligent approach to staying focused on the tasks. The professional or practitioner is able to focus on tasks despite interruptions and is aware of the instances that lead to distraction. The professional or practitioner avoids procrastinating and postponement, which causes stress to the professional or practitioner as well as to teams. This also includes the application of prioritisation techniques. Keeping focus includes the ability to cope with daily work as well as communications and relations.

Measures

- Demonstrates knowledge of own motivations
- Sets personal and professional goals and priorities
- Selects actions that contribute to the personal goals
- Names personal distractors
- Regularly reflects in order to maintain focus on the goals
- Delivers personal commitments on time
- Focuses on tasks despite numerous distractions or interruptions
- Provides own direction or seeks clarification in uncertain situations

5.4.1.4 Organise personal work depending on the situation and own resources

Description: No two situations are the same. What works or worked in one situation may not work in another. The professional or practitioner therefore strives to 'read' situations and people and adapts behaviour to the specific circumstances in order to realise the intended results and reach his or her goals. By choosing a personal organisation and managing his or her own resources, the professional or practitioner shows the ability to prioritise and balance the various tasks in an effective and efficient way. Time, money and energy wasting is avoided by prioritising responsibilities and performing value-adding tasks. The professional or practitioner arranges workload to avoid too much stress and includes relaxation when possible and necessary.

Measures

- Keeps record of own time planning
- Prioritises competing demands
- Says no when appropriate
- Engages resources to maximise delivery
- Adapts language
- Develops tactics appropriate to the situation

5.4.1.5 Take responsibility for personal learning and development

Description: The professional or practitioner is focused on continuous learning and always strives to improve the quality of his or her work, actions and decisions. Accepting feedback and seeking consultation enables personal development and learning. If the professional or practitioner understands and utilises the perceptions and views of others, including critical observations or remarks, personal positions and behaviour can be questioned and improved. The opposite is to remain unchanging, seeing all feedback as criticism, never accepting criticism and refusing to alter his or her ways. The professional or practitioner strives to develop by leveraging all criticism and feedback as opportunities for growth.

Measures

- Uses mistakes or bad results as an impulse for learning activities
- Uses feedback as a chance for personal development
- Seeks consultation
- Measures own performance
- Focuses on continuous improvement of own work and capacities

5.4.2 Personal Integrity and Reliability

Definition: The delivery of programme benefits involves making many professional or practitioner commitments to get things done. Professional or practitioner must demonstrate personal integrity and reliability because a lack of these qualities may lead to a failure of the intended results. Personal integrity means the professional or practitioner is acting in accordance with his or her own moral and ethical values and principles. Reliability is acting dependably, according to expectations and/or agreed behaviour.

Purpose: The purpose of this competence is to enable the professional or practitioner to make consistent decisions, take consistent actions and behave consistently in programmes. Maintaining personal integrity supports an environment built on trust that makes others feel secure and confident. It enables the professional or practitioner to support others.

Description: Integrity and reliability are built on consistency of values, emotions, actions and outcomes, by saying what you do, doing what you say. By using ethical standards and moral principles as a basis for actions and decisions, and by taking responsibility for professional or practitioner actions and decisions, confidence is enabled and promoted. The professional or practitioner is a person to rely on.

Knowledge

- Codes of ethics/codes of practice
- Social equity and sustainability principles
- Personal values and moral standards

- Ethical systems
- Universal rights
- Sustainability

Skills

- Development of confidence and building of relationships
- Following own standards under pressure and against resistance
- Correcting and adjusting personal behaviour

Related competence elements

- All other people CEs
- Perspective 3: Compliance, standards and regulations
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

5.4.2.1 Acknowledge and apply ethical values to all decisions and actions

Description: The professional or practitioner should acknowledge his or her own values, as these values are the foundation for consistent decisions and actions. Understanding values includes being able to express opinions and positions on a variety of topics. The professional or practitioner communicates his or her principles, thereby demonstrating what they stand for. The professional or practitioner makes others feel secure by being predictable in decisions and actions. The professional or practitioner is able to identify inconsistencies and to articulate reasons for discord between statements and actions.

Measures

- Knows and reflects own values
- Uses own values and ideals to shape decisions
- Communicates own principles

5.4.2.2 Promote the sustainability of outputs and outcomes

Description: Promoting sustainability means focusing on the endurance of solutions even when engaged in time-limited tasks. Sustainability is not only about social equity, environment protection or economic results. It is the consideration of the long-term outcomes and effects of behaviour. The professional or practitioner has the ability to keep the bigger picture in mind and act accordingly.

Measures

- Proactively addresses sustainability issues in solutions
- Considers and incorporates long-term outcomes into the solution

5.4.2.3 Take responsibility for own decisions and actions

Description: To take responsibility means the professional or practitioner takes decisions and acts while keeping in mind that the professional or practitioner is fully liable for the consequences – in both a positive and negative way. The professional or practitioner sticks by decisions and agreements established with others. The professional or practitioner feels responsible for the team success on behalf of all the interested parties.

Measures

- Assumes full responsibility for own decisions and actions
- Demonstrates ownership of both positive and negative results
- Takes decisions and sticks to agreements established with others
- Addresses personal and professional shortcomings that get in the way of professional success

5.4.2.4 Act, take decisions and communicate in a consistent way

Description: Consistency means that the professional or practitioner makes sure that words, behaviour and actions match. By applying the same guiding principles throughout your actions, decisions and communication your behaviour is predictable and repeatable in a positive sense. Being consistent does not exclude flexibility in revising plans, if the need for changes is indicated or to adapt to special situations.

Measures

- Demonstrates alignment between words and actions
- Uses similar approaches to solve similar problems
- Adjusts personal behaviour to the context of the situation

5.4.2.5 Complete tasks thoroughly in order to build confidence with others

Description: The professional or practitioner completes tasks in a thorough and careful way. This inspires others to be confident, and make promises and agreements. The professional or practitioner is recognised as someone on whom others rely. Work results would be characterised by others as consistently good quality.

Measures

- Completes work assignments thoroughly and carefully
- Earns confidence through the delivery of complete and accurate work

5.4.3 Personal Communication

Definition: Personal communication includes the exchange of proper information, delivered accurately and consistently to all relevant parties.

Purpose: The purpose of this competence element is to enable the professional or practitioner to communicate efficiently and effectively in a variety of situations, to different audiences and across different cultures.

Description: Personal communication describes the essential aspects of effective communication. Both the content and the means of communication (tone of voice, channel, and amount of information) have to be clear and appropriate for the target audience. The professional or practitioner has to verify the understanding of messages by actively listening to the target audience and seeking feedback. The professional or practitioner promotes open and sincere communication and is able to use various means for communication (presentations, meetings, written forms, etc.) and acknowledge their value and limitations.

Knowledge

- Differences between information and message
- Different methods of communicating

- Different questioning techniques
- Feedback rules
- Facilitation
- Presentation techniques
- Communication channels and styles
- Rhetoric
- Characteristics of body language
- Communication technologies

Skills

- Use different ways of communicating and different styles for effective communication
- Active listening
- Questioning techniques
- Empathy
- Presentation and moderation techniques
- Effective use of body language

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 12: Stakeholders

Key Competence Indicators

5.4.3.1 Provide clear and structured information to others and verify their understanding

Description: To give clear information means to structure and translate information in such a way that the receiver can understand and use it. The professional or practitioner must utilise a logical and structured way of communicating in order to verify understanding. The professional or practitioner must obtain confirmation that the receiver of information has understood the message as intended. That means focusing on the receiver, not on the information itself, and asking for validation when needed.

Measures

- Structures information logically depending on the audience and the situation
- Considers using story-telling when appropriate
- Uses language that is easy to understand
- Leverages public speaking and presentations
- Coaches and gives training
- Leads and facilitates meetings
- Uses visualisation, body language and intonation to support and emphasise messages

5.4.3.2 Facilitate and promote open communication

Description: To facilitate and promote open communication means actively inviting others to give their input and opinions on relevant topics. This requires an atmosphere of confidence, so that people can express their ideas and opinions without being rebuffed, punished or ridiculed. It should be made clear when and how others are free and/or invited to propose ideas, emotions and/or opinions, and when the

time is less appropriate. In the latter situations, people and their input should still be treated with respect. To listen and give feedback is to seize opportunities for the exploration and exchange of opinions. The professional or practitioner has a genuine interest in others' views and creates open and informal frameworks for feed-back. The professional or practitioner makes people feel they and their opinions are valued.

Measures

- Creates an open and respectful atmosphere
- Listens actively and patiently by confirming what has been heard, re-stating or paraphrasing the speakers' own words and confirming the understanding
- Does not interrupt or start talking while others are talking
- Is open and shows true interest in new ideas
- Confirms message/information is understood or, when needed, asks for clarification, examples and/or details
- Makes clear when, where and how ideas, emotions and opinions are welcome
- Makes clear how ideas and opinions will be treated

5.4.3.3 Choose communication styles and channels to meet the needs of the audience, situation and management level

Description: The professional or practitioner chooses the appropriate way of communicating for the target audience. The individual is able to communicate on different levels and through different channels. Formal or informal, neutral or emotional communication should all be considered, as well as whether written, oral or visual communication is most appropriate.

Measures

- Selects appropriate communication channels and style depending on the target audience
- Communicates via selected channels according to the selected style
- Monitors and controls communication
- Changes the communication channels and style depending on the situation

5.4.3.4 Communicate effectively with virtual teams

Description: A virtual team consists of professional or practitioner who work across time zones, space and/or organisational boundaries. Communication within virtual teams is a challenge, as not all are located in the same environment and/or organisation, and they may be distributed over several organisations, cities, countries or continents. Communication between virtual team members is often asynchronous and not face-to-face, and has to use modern communication technology. The communication procedures have to consider aspects such as language, channel, content and time zones.

Measures

- Uses modern communication technology, e.g. webinars, tele-conferences, chat, cloud computing
- Defines and maintains clear communication processes and procedures
- Promotes cohesion and team building

5.4.3.5 Employ humour and sense of perspective when appropriate

Description: Work in programmes can often be stressful. Being capable of viewing situations, problems and even your own work from different viewpoints is an important asset. Humour enables professional or practitioner to acquire a sense of perspective – a way of judging how good, bad or important something is compared with other things. The release of tension through humour often facilitates cooperation and decision making. Humour is a powerful tool to decrease tension in situations where conflicts threaten to arise. Provided it is used in the right way, at the right time and with respect, humour can also facilitate communication.

Measures

- Changes communication perspectives
- Decreases tension by use of humour

5.4.4 Relations and engagement

Definition: Personal relations build the foundation for the productive collaboration, personal engagement and commitment of others. This includes one-to-one relations as well as setting up a whole network of relations. Time and attention have to be invested in establishing durable and robust relations with professional or practitioner. The ability to form strong relationships is primarily driven by social competences such as empathy, trust, confidence and communication skills. Sharing visions and goals with professional or practitioner and the team drives others to engage in tasks and to commit to the common goals.

Purpose: The purpose of this competence element is to enable the professional or practitioner to build and maintain personal relations and to understand that the ability to engage with others is a precondition for collaboration, commitment and, ultimately, performance.

Description: Personal relations are initiated by genuine interest in people. Building up relations is twofold. It is about establishing one-to-one relations, as well as creating and supporting social networks. In both situations, the professional or practitioner has to be able to interact openly with others. Once established, the relations have to be maintained and improved by establishing and showing confidence, respectful interaction and open communication. Cultural differences can enhance interest and attractiveness as well as chances for misunderstandings that might endanger the quality of relationships. When personal relationships are established it is much easier to engage others when your own visions, goals and tasks are communicated in an enthusiastic way. Another way to engage others and get their commitment is to actively involve them in discussions, decisions and actions. In general, people tend to commit to goals and tasks more easily when asked in advance.

Knowledge

- Intrinsic motivation
- Motivation theories
- Handling resistance
- Values, traditions, professional or practitioner requirements of different cultures
- Network theory

Skills

- Use of humour as icebreaker
- Appropriate ways of communicating
- Respectful communication

- Respecting others and being aware of ethnical and cultural diversity
- Trusting own intuition

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 12: Stakeholders

Key Competence Indicators

5.4.4.1 Initiate and develop personal and professional relations

Description: To initiate and develop personal relations is to seek and make use of chances to establish contact with other people. The professional or practitioner demonstrates interest in people and is ready to engage with them. The professional or practitioner utilises possibilities and situations to create and maintain personal and professional contacts. The professional or practitioner is present, available, open for dialogue, and actively staying in contact. The professional or practitioner is visible and accessible for team members, clients, customers or other stakeholders. The professional or practitioner acts attentively, acknowledges others and keeps them informed.

Measures

- Actively seeks possibilities and situations to make new contacts
- Demonstrates interest in meeting new people
- Uses humour as an icebreaker
- Is present, available and open for dialogue
- Stays actively in contact, establishes a routine for bilateral meetings
- Keeps others informed

5.4.4.2 Build, facilitate and contribute to social networks

Description: Building, facilitating and contributing to social networks has various levels. On the lowest level, the professional or practitioner joins, and contributes to, networks with interesting and/or useful others. By doing so, new relations are established. On the second level, the professional or practitioner creates new networks and circles of his or her own, and so opens up new communication flows between others. The professional or practitioner thus acts as a facilitator or communication hub. The next level of social networking is to make one's own relations available for others. This means enabling, enforcing and establishing relations between others that are sustained even without the professional or practitioner being engaged.

Measures

- Joins and contributes to social networks
- Creates and facilitates social networks
- Organises events for networking
- Facilitates support for networking

5.4.4.3 Demonstrate empathy through listening, understanding and support

Description: To demonstrate empathy means to show real interest and involvement with others and their well-being. The professional or practitioner listens attentively to others and ensures understanding by asking questions for clarification or detail. The professional or practitioner recognises emotions expressed or possibly just experienced by others. The professional or practitioner relates and reacts to these emotions in a sympathetic or compassionate way. The professional or practitioner offers support, even when it is not asked for.

Measures

- Listens actively
- Makes others feel heard
- Asks questions for clarification
- Relates to the problems of others and offers help
- Familiarises with the values and standards of others
- Responds to communication within a reasonable time

5.4.4.4 Show confidence and respect by encouraging others to share their opinions or concerns

Description: Having confidence in someone means having belief in their future actions or decisions, and being convinced of their positive intentions. The professional or practitioner does not have a hidden agenda but shares information with others. The professional or practitioner also accepts that showing confidence is an investment with an insecure outcome. The professional or practitioner takes others seriously, with their talents and opinions, and that success also depends on their actions and commitment. To get the optimal team performance it is crucial to understand the motivation of the team members. To get there, the professional or practitioner has to spend time with people in order to understand who they are and what makes them tick. The professional or practitioner should keep in mind that the values, experiences and goals of others might be very different from his or her own. Acting respectfully means treating others in a respectful way, as you would like to be treated yourself. The professional or practitioner takes others seriously by cherishing their opinions, their work and their person, regardless of gender, race, social status or background. Cultural diversity is respected. The professional or practitioner considers codes of conduct as guidelines for decisions and behaviour.

Measures

- Relies on a given word
- Assigns tasks to team members based on confidence
- Expects others to act according to common values and agreements
- Delegates work without monitoring and controlling every single step
- Asks others for their ideas, wishes and concerns
- Notices and respects differences between people
- Embraces the importance of professional and personal variety

5.4.4.5 Share own vision and goals in order to gain the engagement and commitment of others

Description: To share a vision and goals implies acknowledging and demonstrating a positive and enthusiastic attitude towards a certain task, process or goal while showing a realistic optimism. To inspire others requires an ambitious yet clear vision, realistic objectives and the ability to achieve 'commitment' from the people concerned. Self-commitment is an important requirement for that. Inspiration is often achieved through a shared vision a view of the future that people can believe in and want to be part of.

This vision can either be explicit (even written down) or implicit. The vision serves as a motivator for change. To engage people and get their commitment means making them feel personally responsible for a good outcome. This can be done by various means by asking their advice, by making them responsible for a task or by involving them in decisions.

The professional or practitioner should make optimal use of the skills and experience of his or her co-workers. This means that people should be involved in decisions on the basis of what they can add to the existing knowledge. The same goes for sharing information, as this can enhance commitment. However, the professional or practitioner must also be aware of the dangers of information overload. As every team member has their own tasks, in some cases it is better to share information on a 'need to know' basis.

Measures

- Acts positively
- Clearly communicates vision, goals and outcomes
- Invites debate and critique of the vision, goals and outcomes
- Involves people in planning and decision making
- Asks for commitment on specific tasks
- Takes professional or practitioner contributions seriously
- Emphasises the commitment of all to realise success

5.4.5 Leadership

Definition: Leadership means providing direction and guidance to professional or practitioner and groups. It involves the ability to choose and apply appropriate styles of management in different situations. Besides displaying leadership with his or her team, the professional or practitioner needs to be seen as a leader in representing the programme to senior management and other interested parties.

Purpose: The purpose of this competence element is to enable the professional or practitioner to lead, provide direction and motivate others, in order to enhance professional or practitioner and team performance.

Description: A leader has to be aware of different leadership styles and decide which is appropriate for his or her nature, for the programme, and for the team being managed and other interested parties, in all types of situations. The leadership style adopted includes patterns of behaviour, communication methods, attitudes towards conflicts, ways of controlling team members' behaviours, decision making processes, and the amount and type of delegation. Leadership is important through-out the full life of the programme, and becomes especially important when change is required or when there is uncertainty about a course of action.

Knowledge

- Leadership models
- Professional or practitioner learning
- Communication techniques
- Coaching
- Sense-making and sense-giving
- Decision taking (consensus, democratic/majority, compromise, authority, etc.)

Skills

- Personal self-awareness
- Listening skills
- Emotional strength
- Capacity to express a set of values
- Dealing with mistakes and failure
- Sharing values
- Creating team spirit
- Methods and techniques for communication and leadership
- Management of virtual teams

Related competence elements

- All other people CEs
- All practice CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

5.4.5.1 Initiate actions and proactively offer help and advice

Description: To take the initiative means having the tendency and ability to start an unrequested action, including coming up with a proposal or advice, taking the lead and/or giving or helping without first being invited to do so. Taking the initiative requires the ability to think ahead, both of possible situations and possible solutions. Taking the initiative adds to one's influence and heightens one's visibility. On the other hand, if the initiative is not welcomed or turns out badly, there is a risk of losing influence or status. So every initiative should always be guided by a careful weighing of pros and cons.

Measures

- Proposes or exerts actions
- Offers unrequested help or advice
- Thinks and acts with a future orientation (i.e. one step ahead)
- Balances initiative and risk

5.4.5.2 Take ownership and show commitment

Description: To take ownership means demonstrating personal buy-in. This commitment to the objectives of the programme makes people believe in its value. The professional or practitioner acts as an entrepreneur by taking full responsibility for the process, and by spotting opportunities for improvement. The professional or practitioner constantly monitors processes and results to spot the right occasions for intervention and improvement and opens up possibilities for learning.

Measures

- Demonstrates ownership and commitment in behaviour, speech and attitudes
- Talks about the programme in positive terms
- Rallies and generates enthusiasm for the programme
- Sets up measures and performance indicators
- Looks for ways to improve the programme processes
- Drives learning

5.4.5.3 Provide direction, coaching and mentoring to guide and improve the work of professional or practitioner and teams

Description: To give direction, coaching and mentoring means to give guidance and support to people and teams and establish conditions that engage people with their assignments. Coaching and mentoring is focused on improving the abilities and self-reliance of team members. Direction is guiding them in their activities. The professional or practitioner creates and communicates personal and common objectives and acts from these. The professional or practitioner creates and shares a vision that leads the programme. To give direction, coaching and mentoring requires the ability to keep a cool head in demanding and unclear situations. It also requires that the professional or practitioner knows when and in what direction coaching or mentoring are needed and what form they should take. Sometimes it may be better to withhold a proposal or decision for a while to promote the self-reliance or creativity of teams or professional or practitioner.

Measures

- Provides direction for people and teams
- Coaches and mentors team members to improve their capabilities
- Establishes a vision and values and leads according to these principles
- Aligns professional or practitioner objectives with common objectives and describes the way to achieve them

5.4.5.4 Exert appropriate power and influence over others to achieve the goals

Description: To exert power and influence means being visible as a leader and opening up the possibility for others to follow. Therefore one needs to understand the demands of colleagues, subordinates, clients and other interested parties, to respond to them and influence their expectations and opinions. To exert influence also means directing other people's actions, whether or not one is in command. A leader actively shapes views and creates the perception of situations, results and relations through words and actions. Sometimes the use of power is necessary to realise results or resolve deadlock; in other situations, a simple, well-placed word may be even more effective. The open use of power may create resentment or invite counter-power, so a leader should know when to use what power means and in what way. The use and effectiveness of power and influence is always tightly linked to communication. A leader should know the possibilities and limits of each communication means and channel.

Measures

Uses various means of exerting influence and power

- Demonstrates timely use of influence and/or power
- Perceived by stakeholders as the leader of the programme or team

5.4.5.5 Make, enforce and review decisions

Description: Making decisions means being able to select a course of action based on several possible alter-native paths. Often decisions are made with incomplete or even contradictory information, and with uncertain consequences. Making decisions entails consciously selecting from alternatives and choosing the one that is most consistent and aligned with the objectives. Decisions should be taken based upon analysis of the facts, and incorporating the views and opinions of others.

Sometimes the information quality is so poor that decisions are based on intuition. Reviewing and being prepared to change prior decisions based on new information is an essential part of the ability to take decisions. Decisions often have to be taken by others (for instance by line managers, steering committees, etc.). The leader exerts his or her influence to have these others take the right decisions at the right time.

Measures

- Deals with uncertainty
- Invites opinion and discussion prior to decision making in a timely and appropriate fashion
- Explains the rationale for decisions
- Influences decisions of stakeholders by offering analyses and interpretations
- Communicates the decision and intent clearly
- Reviews decisions and changes decisions according to new facts
- Reflects on past situations to improve decision processes

5.4.6 Teamwork

Definition: Teamwork is about bringing people together to realise a common objective. Teams are groups of people working together to realise specific objectives. Programme teams are commonly multi-disciplinary; specialists in different disciplines work together to realise complex outcomes. Teamwork is about building a productive team by forming, supporting and leading the team. Team communication and team relations are among the most important aspects of successful teamwork.

Purpose: The purpose of this competence element is to enable the professional or practitioner to select the right team members, promote a team orientation, and effectively manage a team.

Description: Teamwork covers the complete life cycle of teams. It starts with the initial phase of selecting the right team members. After that, the team has to be built, supported and steered. During the various phases of the programme, as the team members and the team as a whole acquire more maturity in their respective tasks, they can perform these tasks more independently and consequently are given more responsibility.

Team building is often done by the use of meetings, workshops and seminars that may include the professional or practitioner leading the programme, team members and sometimes other interested parties. Team spirit (i.e. getting people to work well together) can be achieved through professional or practitioner motivation, team goal setting, social events and supporting strategies, and others.

Problems may arise due to technical or economic difficulties or other kinds of stressful situations. Issues may also arise due to cultural and educational differences, different interests and/or ways of working, or members being located great distances apart. The professional or practitioner leading the team needs to continually develop the team and its members throughout the life of the programme.

During their time working for the programme, the performance of team members should be regularly reviewed by the professional or practitioner leading the team in consultation with the line manager, to assess and respond to development, coaching and training needs. Where the performance of a team member is below the required standard, remedial action may be necessary. Throughout the life of a team, personal involvement should be encouraged, networking stimulated, a productive work environment facilitated and communication and relationships supported.

Knowledge

- Basics of project and portfolio organisation
- Team role models
- Team lifecycle models

Skills

- Recruiting and personnel selection skills
- Interview techniques
- Building and maintaining relationships
- Facilitation skills

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 8: Resources
- Practice 10: Plan and control

Key Competence Indicators

5.4.6.1 Select and build the team

Description: To ensure successful teamwork, the right resources for the team have to be selected. Apart from ensuring that they have the necessary knowledge and skills, the professional or practitioner leading the team also has to take care that the selected team members have the right 'chemistry' to be able to work together as a team. Before the chosen team can start performing, the professional or practitioner have to generate an understanding of themselves as a team? The role of the professional or practitioner leading the team is to translate professional or practitioner motivation into team performance. The members have to be enabled to learn about each other and the tasks they are facing. Team building is a continuous task, but as the team matures the necessary activities for the professional or practitioner leading the team change accordingly.

Measures

- Considers professional or practitioner competences, strengths, weaknesses and motivation when deciding on team inclusion, roles and tasks
- Clarifies objectives and creates a common vision
- Sets the team objectives, agenda, and completion criteria
- Negotiates common team norms and rules

- Motivates professional or practitioner and builds team awareness

5.4.6.2 Promote cooperation and networking between team members

Description: Stimulating cooperation means actively influencing team participants to work together and contribute with their experience, knowledge, opinions, ideas and concerns, for the sake of the agreed objectives. Discussions and disagreements are an unavoidable consequence of this, but as long as the professional or practitioner leading the team makes sure that a productive and respectful atmosphere is maintained, team members can expect that conflict will lead to better performance. Whenever professional or practitioner team members set out to disrupt cooperation by playing a divisive or counterproductive role, the professional or practitioner leading the team needs to address this by correcting, and, in extreme cases, replacing the team member. The team leader can stimulate networking through physical and virtual activities where team members share their knowledge and motivate and inspire each other.

Measures

- Creates opportunities for team member discussions
- Asks for opinions, suggestions and concerns from team members in order to improve performance
- Shares successes with the team(s)
- Promotes cooperation with people both within and outside the team
- Takes appropriate action when team cooperation is threatened
- Uses tools for collaboration

5.4.6.3 Support, facilitate and review the development of the team and its members

Description: Team development involves continuously developing the team, encouraging members to gain new knowledge and skills. The role of the professional or practitioner leading the team is to support, enable and review these learning efforts as well as creating opportunities to share knowledge between team members, other teams and the organisation outside the programme.

Measures

- Promotes continuous learning and knowledge sharing
- Uses techniques to engage in development (e.g. on-the-job training)
- Provides opportunities for seminars and workshops (on- and off-the-job)
- Plans and promotes 'lessons learned' sessions
- Provides time and opportunity for self-development of team members

5.4.6.4 Empower teams by delegating tasks and responsibilities

Description: Responsibility creates involvement. The professional or practitioner leading the team increases involvement and professional or practitioner and collective empowerment by delegating tasks and problems to teams or team members. Dependent on their task maturity, delegated tasks can be big, challenging and important. The output of delegated tasks to professional or practitioner and teams should be measured, with feedback cycles for the team to ensure learning occurs.

Measures

- Delegates tasks when and where appropriate
- Empowers people and teams by delegating responsibility
- Clarifies performance criteria and expectations

- Provides reporting structures at team level
- Provides professional or practitioner and team feedback sessions

5.4.6.5 Recognise errors to facilitate learning from mistakes

Description: The professional or practitioner leading the team makes sure that the effect of errors and mistakes on the outcomes, processes and success of the programme are kept to a minimum. The professional or practitioner is aware that mistakes can always happen and understands and accepts that people make errors. The professional or practitioner analyses mistakes and facilitates learning from mistakes. Errors and mistakes are used as a platform for change and improvement so that there is less chance of future errors. In some cases, the professional or practitioner leading the team can even promote behaviour that increases the chance of errors, if the programme needs innovative ways to overcome problems and difficulties. Even then, the professional or practitioner leading the team ensures that the final outcomes, processes and programme success are not affected negatively. The professional or practitioner seeks root-causes for mistakes and takes effective action to ensure that the same mistakes do not occur again.

Measures

- As far as possible, avoids negative effects of errors on programme success
- Realises that mistakes happen and accept that people make errors
- Shows tolerance for mistakes
- Analyses and discusses mistakes to determine improvements in processes
- Helps team members to learn from their mistakes

5.4.7 Conflict and Crisis

Definition: Conflict and crisis includes moderating or solving conflicts and crises by being observant of the environment, and noticing and delivering a remedy for disagreements. Conflicts and crises may include events and situations, character conflicts, stress levels and other potential dangers. The professional or practitioner must handle these scenarios appropriately and stimulate a learning process for future conflicts and crises.

Purpose: The purpose of this competence element is to enable the professional or practitioner to take effective action when a crisis or clash of opposing interests/incompatible personalities occurs.

Description: Conflicts may occur between two or more people and/or parties. Very often, a conflict erodes a good working environment and may result in a negative effect for the parties involved. A crisis may be the outgrowth of a conflict, or it may be the result of a sudden, abrupt or decisive change in a situation that threatens to thwart the realisation of the goals of the programme, either direct or indirect. At such times, a rapid response is required and skilled judgment needs to be applied to assess the crisis, define scenarios to solve the crisis and secure the programme and to decide whether to escalate the issue and how high this needs to go in the organisation.

The ability to identify potential conflicts and crises and to react accordingly needs an understanding of the fundamental mechanisms. The professional or practitioner can use a variety of means for reacting to potential or actual conflict and crisis, for example collaboration, compromise, prevention, persuasion, escalation or the use of power. Each depends on achieving a balance between interests. Transparency and integrity shown by the professional or practitioner, acting as an intermediary between parties in

conflict, will help in finding acceptable solutions. However, sometimes conflicts cannot be solved from within the team or the programme but only by calling in independent mediating or deciding parties.

Knowledge

- De-escalation techniques
- Creativity techniques
- Moderation techniques
- Scenario techniques
- Conflict stage models
- Value of conflicts in team building
- Crisis plan
- Worst case scenarios

Skills

- Diplomatic skills
- Negotiation skills, finding a compromise
- Moderation skills
- Persuasiveness
- Rhetorical skills
- Analytical skills
- Stress resistance

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 8: Resources
- Practice 10: Plan and control
- Practice 11: Risk and opportunity

Key Competence Indicators

5.4.7.1 Anticipate and possibly prevent conflicts and crises

Description: To be aware of potential conflicts and crises means being alert and observant of situations that might lead to disagreements. Possible conflicts are ideally identified and prevented or tackled at an early stage, before they expand. Prevention includes pre-empting conflict topics, keeping team members with conflicting characters or interests in separate teams and/or delegating conflict-sensitive items to specific people. Stress is a very likely factor in potential conflicts or crises, as people tend to get irritable under pressure. The professional or practitioner leading the team should therefore be able to recognise, assess and reduce professional or practitioner stress levels.

Measures

- Analyses potentially stressful situations
- Keeps conflicting characters or interests in separate tasks/teams
- Delegates conflict-sensitive items to specific people
- Implements preventive measures
- Takes stress-reducing measures

- Reflects on stressful situations in a team

5.4.7.2 Analyse the causes and consequences of conflicts and crises and select appropriate response(s)

Description: Conflicts pass through various stages, as defined by several theories. These stages can be summarised in three broad categories:

- **Latent (potential, slumbering,** but not yet visible or acknowledged). This exists whenever professional or practitioner or groups have differences that bother one or the other, but the differences are not great enough to cause one side to act to alter the situation
- **Emergent (visible but still rational).** This may happen when a 'triggering event' happens, for instance an open disagreement on a topic. This topic is either the real cause of the conflict, or a pretext for another conflict of interest or character. When the conflict is emergent, the involved parties are still on speaking terms and can discuss rational solutions.
- **Escalated (open conflict).** In this phase the parties are openly and emotionally at odds with each other and are not able or willing any more to discuss solutions calmly and rationally. Other people are tending to take sides, or they are or urged to. In some situations legal steps may be taken or considered.

Crises, by contrast, jump immediately to the third level without acknowledged intermediary steps. However, they are often not the result of conflict situations, but may arise because of a sudden or suddenly discovered issue – a major risk occurring, an outside event with great impact, etc. The art of conflict and crisis management is to assess causes and consequences and obtain additional information for use in the decision making process to define possible solutions. Conflicts and crises can have very different causes, varying from factual disagreements to character conflicts, and they may have origins that are external to the programme, or even the organisation. Depending on the causes, different solutions may be possible. Crises can also be differentiated by their potential impacts. Depending on the specific stage, different approaches to soothe, solve or escalate the conflict or crisis can be chosen.

Measures

- Assesses conflict stage
- Analyses causes of a conflict or crisis
- Analyses potential impact of a conflict or crisis
- Has different conflict or crisis approaches available to choose from

5.4.7.3 Mediate and resolve conflicts and crises and/or their impact

Description: Often conflict or crisis management has to be performed against a background of professional or practitioner and/ or groups who are angry or in panic mode. In a minimum amount of time, the professional or practitioner has to pull the information together, weigh the options, aim for a positive and preferably synergistic solution and, most important, stay calm and in control. In these circumstances, relaxation and balanced judgment are important qualities. In situations of crisis the ability to act decisively is most important.

The potential means of resolving conflicts involve collaboration, compromise, prevention or use of power. Each depends on achieving a balance between one's own and others' interests. Co-operative

conflict management requires willingness to compromise among all parties. At early stages of conflicts the professional or practitioner can act as a moderator/mediator at least when the professional or practitioner is not directly involved. The professional or practitioner brings the conflicting parties together and enables communication without being too judgmental. In later stages the options may include use of power, escalation to higher management, professional mediation and/or legal measures.

Measures

- Addresses issues openly
- Creates an atmosphere of constructive debate
- Selects and uses the right method to solve the conflict or crisis
- Takes disciplinary or legal measures when appropriate

5.4.7.4 Identify and share learning from conflicts and crises in order to improve future practice

Description: Once a conflict has been resolved, it is important to restore a sense of harmony and equilibrium to the environment. Stimulating learning from conflicts and crises means the professional or practitioner leading the team of the programme can question the origins and causes of a conflict on a meta-level. Furthermore the professional or practitioner can differentiate between environmental coincidences and true causes of a conflict or crisis, learn from them and encourage the team to do the same, so that they cope better with similar situations in the future.

Measures

- Restores the team environment
- Motivates the team to acknowledge and learn from their own part in the conflict
- Uses conflicts in a positive way to progress
- Strengthens the team cohesion and solidity with regard to potential future conflicts and crises

5.4.8 Resourcefulness

Definition: Resourcefulness is the ability to apply various techniques and ways of thinking to defining, analysing, prioritising, finding alternatives for and dealing with or solving challenges and problems. It often requires thinking and acting in original and imaginative ways and stimulating the creativity of professional or practitioner and the collective creativity of the team. Resourcefulness is useful when risks, opportunities, problems and difficult situations arise.

Purpose: The purpose of this competence element is to enable the professional or practitioner to effectively handle uncertainty, problems, changes, limitations and stressful situations by systematically and continuously searching for new, better and more effective approaches and/or solutions.

Description: Resourcefulness is about making optimal use of what to work with. It is not just about creating something new; it also applies to making existing things work better, faster or cheaper. The professional or practitioner acquires capable resources and foster an attitude of resourcefulness within the team to stimulate, evaluate and act upon ideas that can benefit the process, results or goals. Ideas must often be 'sold' to the team before they are accepted. A team atmosphere that is open to creativity and innovation is a prerequisite for acceptance. Others in the team will then often champion the idea and refine it so that it gains greater acceptance.

Resourcefulness is one of the prime competences for programme success. Resourcefulness helps to overcome problems and motivates the team to work together in developing the idea into a workable

solution. Creativity must be used with care in the programme team, so that the focus on realising the agreed results of the programme is not lost. Conceptual and analytic techniques are also of utmost importance to deal with the information overflow that many programmes and organisations face. Being able to extract, present or report the right information in a timely manner is crucial for success.

Knowledge

- Techniques to solicit views of others
- Conceptual thinking
- Abstraction techniques
- Strategic thinking methods
- Analytic techniques
- Convergent and divergent thinking
- Creativity methods
- Innovation processes and techniques
- Coping methods
- Lateral thinking
- Systems thinking
- Synergy and holistic thinking
- Scenario analysis
- SWOT technique
- PESTLE analysis
- Creativity theories
- Brainstorming techniques, e.g. lateral thinking
- Converging techniques (comparative analysis, interview techniques)

Skills

- Analytical skills
- Facilitating discussions and group working sessions
- Choosing appropriate methods and techniques to communicate information
- Thinking 'outside the box' – new ways of doing things
- Imagining an unknown future state
- Being resilient
- Dealing with mistakes and failure
- Identifying and seeing different perspectives

Related competence elements

- All other people CEs
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 10: Plan and control
- Practice 11: Risk and opportunity

Key Competence Indicators

5.4.8.1 Stimulate and support an open and creative environment

Description: The professional or practitioner creates a work environment that encourages people to share their knowledge and contribute their ideas and opinions. To stimulate and support creativity and

innovation, the professional or practitioner needs to be open to original and imaginative ways to overcome obstacles. These may include new products, processes or procedures or could involve revising specific tasks or roles and responsibilities. The professional or practitioner can make others feel they are welcome to express themselves, so that the programme can benefit from their input, suggestions, ideas and concerns. This is necessary as a means of benefiting from others' knowledge and experience. Since in every programme professionals with various backgrounds and abilities have to work together, openness is important. Most of the team members have an area of expertise where they are more knowledgeable than the professional or practitioner. The relationships in the team are built on mutual respect, trust and reliability. So the professional or practitioner should regularly ask people for their input and show willingness to understand and possibly adopt their ideas. Of course there is a time and place for everything, so the professional or practitioner should also make clear when there is time for creative input and when not.

Measures

- Encourages people to share their knowledge and contribute their opinions
- Stimulates and supports creativity when appropriate
- Uses and stimulates original and imaginative ways to overcome obstacles
- Seeks input from others and shows willingness to consider and/or adopt their ideas
- Considers the perspectives of others

5.4.8.2 Apply conceptual thinking to define situations and strategies

Description: Every programme is a unique effort to create something new. This requires the abilities of abstraction and conceptualisation, that is, of breaking down or reducing the subject in question (be it an outcome, plan, requirement, risk, situation or problem) into smaller parts and integrating these into new and useable ideas. The professional or practitioner must apply conceptual thinking, and also leverage able team members. Conceptual thinking also means bearing in mind that problems regularly have multiple causes that relate to each other within a general context, and that different ways of solving problems have different effects on other parts, both in and outside the programme.

Measures

- Uses or promotes conceptual thinking when appropriate
- Knows that problems often have multiple causes and that solutions often have multiple effects
- Applies systemic thinking

5.4.8.3 Apply analytic techniques to analysing situations, financial and organisational data and trends

Description: The professional or practitioner is able to analyse (or delegate the analysis of) complex situations or problems and find solutions and alternatives. The professional or practitioner can also analyse and derive useful information and trends from complex sets of data and present or report the findings clearly. Analytical dexterity means having different methods at disposal for detecting a problem's actual causes and implementing or proposing the correct measures to solve it.

Measures

- Applies various analytic techniques
- Analyses problems to detect causes and possible solutions
- Analyses complex sets of data and extracts relevant information
- Clearly reports and presents data conclusions, summaries and trends

5.4.8.4 Promote and apply creative techniques to find alternatives and solutions

Description: Creative techniques should be used to identify solutions. These techniques can be divided into 'diverging' techniques and 'converging' techniques. When problems arise, the professional or practitioner leading the team of the programme needs to judge whether a creative approach is appropriate or not. Where a creative approach is appropriate, the professional or practitioner needs to decide which methods to use. After the problem or issue is defined (possibly by using conceptual thinking and/or analytic techniques) there follows a diverging creative stage, to gather possible solutions. A brainstorming session may be appropriate, where members of the team and others in the organisation who might be able to contribute meet to have their ideas captured. Other much-used techniques include mind mapping, storyboarding, visualising, etc. Whatever method is used in finding a creative solution, it involves looking at the issue from different perspectives, combining tools, knowledge, common sense, intuition and experience and applying them. In the following, more analytic, converging stage, possible solutions and their effect on the problem or issue in question are analysed. Converging techniques include weighted selection, force-field analysis, etc. The most promising ideas are then further refined and finally the best concepts/solutions are chosen.

Measures

- Uses creative techniques when appropriate
- Applies diverging techniques
- Applies converging techniques
- Engages multiple views and skills
- Identifies interdependencies

5.4.8.5 Promote a holistic view of the programme and its context to improve decision making

Description: To promote holistic views means considering a current situation in relation to the full context of the programme, such as the enterprise strategies, concurrent activities and/or projects or programmes. The professional or practitioner leading the team of the programme uses multiple perspectives to judge and deal with situations. The professional or practitioner recognises the significance of details and can separate the details from the bigger picture. The professional or practitioner understands the connection between the situation and its context and can make or promote decisions based on understanding of a wide array of influences, interests and possibilities. The professional or practitioner is also able to explain these holistic views to others, both inside and outside the programme.

Measures

- Demonstrates holistic thinking and can explain the bigger picture
- Uses multiple perspectives to analyse and deal with the current situation
- Makes connections between the programme and the larger context and takes appropriate action

5.4.9 Negotiation

Definition: Negotiation is the process between two or more parties that aims to balance different interests, needs and expectations in order to reach a common agreement and commitment while maintaining a positive working relationship. Negotiation includes both formal and informal processes such as buying, hiring or selling or regarding requirements, budget and resources in programmes.

Purpose: The purpose of this competence element is to enable the professional or practitioner to reach satisfactory agreements with others by using negotiation techniques.

Description: Agreements are based on positions that will satisfy the interests, needs and expectations of all parties. Negotiations can be political or commercial, and can often entail reaching compromises that do not leave all parties very satisfied. Interests, needs and expectations often involve emotions and feelings as well as facts, and the full picture may not be easy to identify. The negotiating process is often influenced by the relative power of the parties, and by situational factors that may be called 'leverage'.

Negotiators need to research these issues and, when full information is not available, make assumptions about them. Successful negotiation is facilitated by developing a number of options, each of which has the potential to satisfy different interests, needs and expectations. Negotiation may involve the use of different techniques, tactics and strategies.

Knowledge

- Negotiation theories
- Negotiation techniques
- Negotiation tactics
- Phases in negotiations
- BATNA (best alternative to a negotiated agreement)
- Contract templates and types
- Legal and regulatory provisions associated with contracts and agreements
- Analysis of cultural aspects and tactics

Skills

- Identification of the desired outcomes
- Assertiveness and drive to reach desired outcomes
- Empathy
- Patience
- Persuasion
- Establishing and maintaining trust and positive working relationships

Related competence elements

- All other people CEs
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 9: Procurement
- Practice 10: Plan and control

Key Competence Indicators

5.4.9.1 Identify and analyse the interests of all parties involved in the negotiation

Description: Understanding the priorities of the parties to the negotiation is a prerequisite to generating a successful outcome. The professional or practitioner leading or participating in the negotiations should begin by gathering hard and soft information about interests, needs and expectations of all parties by

whatever means are available. Analysis of this information should reveal both priorities and gaps for further research. Priorities of other parties may often have to be assumed.

Measures

- Knows and reflects own interests, needs and constraints
- Gathers and documents relevant hard and soft information about interests, needs and expectations of all parties involved
- Analyses and documents available information to identify own priorities and likely priorities for other parties

5.4.9.2 Develop and evaluate options and alternatives with the potential to meet the needs of all parties

Description: The professional or practitioner identifies trade-offs, options and alternative negotiation solutions. They are developed during the preparation for negotiation and may be modified during the negotiations as opportunities emerge and the situation changes. The trade-offs, options and alternatives should be tuned to the interests of the negotiating parties, to be useable during the negotiation process. A best alternative to a negotiated agreement (BATNA) should also be identified.

Measures

- Identifies trade-offs, options and alternative solutions based on the analysis of interests, needs and priorities of all parties
- Proposes the right option at the right time in the right way

5.4.9.3 Define a negotiation strategy in line with own objectives that is acceptable to all parties involved

Description: The negotiation strategy focus on what the professional or practitioner thinks is essential for a successful outcome. Before starting the negotiation, the professional or practitioner must select the strategy, techniques and tactics that will enable him or her to reach an optimal outcome for the programme. The strategy may depend upon factors such as the power balance between the parties, the stakes involved, budgetary conditions, politics, cultural aspects, and the capability of the negotiators. The selected strategy should be appropriate to the interests of the programme and not detrimental to relations with the stakeholders involved. The professional or practitioner should also consider secondary strategies that cover 'what if' scenarios. The strategy also includes who the negotiators will be and what will be their mandate (negotiation scope, freedom, roles and responsibilities). In some cases a choice is also possible about the other party and/or negotiation scope (with whom to negotiate over what). This option should be carefully considered, as this choice might have negative or positive repercussions later on.

Measures

- Identifies possible negotiation strategies in order to achieve the desired outcome
- Identifies secondary strategies and alternative options to address 'what if' scenarios
- Selects a negotiation strategy and can explain why it has been chosen
- Analyses and selects negotiation techniques and tactics to support the desired negotiation strategy
- Identifies key parties to participate in the negotiation and clearly articulates their mandate

5.4.9.4 Reach negotiated agreements with other parties that are in line with own objectives

Description: An agreement is reached through negotiation using the identified strategies, tools and tactics with-out alienating the other parties involved. Negotiation may occur over an extended timeframe and may proceed in phases. A satisfactory agreement is one in which all parties are reasonably satisfied with the result, will honour their commitments, think the other parties negotiated fairly, and feel respected and will negotiate again. If an agreement is not achievable or the possible outcomes are not acceptable, the BATNA is implemented. The best possible solution is often one that is sustainable and provides the best long term results for all parties. There may be specific situations where this is not possible or preferable and a compromise may be required to meet one's desired outcome. In many situations, the agreed out-comes are documented for future reference.

Measures

- Negotiates using techniques and tactics appropriate to the circumstances to achieve the desired outcome
- Negotiates to achieve a sustainable agreement
- Demonstrates patience and drive to realise a sustainable agreement
- Implements BATNA if a sustainable outcome is not possible
- Documents the outcomes of the negotiation

5.4.9.5 Detect and exploit additional selling and acquisition possibilities

Description: The professional or practitioner is constantly striving to realise the processes and agreed outcomes faster, better and/or cheaper. This means that the professional or practitioner has to have a keen eye for opportunities to realise this aim. Depending on the situation, this may for instance mean searching for new suppliers or renegotiating old agreements, looking for ways to offer services to new clients, negotiating better conditions with stakeholders or inviting teams or team members to realise tasks sooner, better and/or cheaper. Negotiating will occur after the new opportunities are identified. The desired state should be seen in the light of the best interests of the programme and the organisation. Is the organisation best served with the present situation or with efforts to improve it? In considering this, the professional or practitioner is aware that negotiations also take up time and effort and that present relations with negotiation partners may be affected.

Measures

- Seeks ways to deliver the agreed outcomes sooner, better and/or cheaper
- Weighs alternatives to the current situation and agreements
- Considers the impact of alternatives on current relations

5.4.10 Results Orientation

Definition: Results orientation is the critical focus maintained by the professional or practitioner on the outcomes of the programme. The professional or practitioner prioritises the means and resources to overcome problems, challenges and obstacles in order to obtain the optimum outcome for all the parties involved. The results are continuously placed at the forefront of the discussion and the team drives toward these outcomes. One critical aspect of results orientation is productivity, which is measured as a combination of effectiveness and efficiency. The professional or practitioner needs to plan and deploy resources efficiently to realise the agreed results and be effective.

Purpose

The purpose of this competence element is to enable the professional or practitioner to focus on the agreed out-comes and drive towards making the programme a success.

Description: Most of the work in the life of programmes deals with the definition and management of tasks and the resolution of smaller or bigger problems. In this definition, choices have to be made repeatedly, about priorities, allocation, to-be-used techniques, etc. Results orientation eases these choices by defining a basic criterion: 'Will the present work realise the desired results or make the process faster, cheaper and/or better?'

Results orientation means focusing the attention of the professional or practitioner and the team on key objectives to obtain the optimum outcome for all the parties involved. The professional or practitioner has to ensure that the agreed outcomes satisfy the relevant stakeholders. This also applies to any changes agreed during the life of the programme. While focusing his or her attention on the outcomes, the professional or practitioner still needs to maintain an awareness of and react to any ethical, legal or environmental issues that affect the programme. Results orientation also includes focusing the team and relevant stakeholders on delivering the requested outcomes, including identifying problems, using techniques to locate their causes and to find and implement solutions.

To deliver the outcomes required by and agreed with the relevant stakeholders, the individual must find out what the different participants in the programme would like to get out of it for themselves. The professional or practitioner must manage the deployment and development of the team members taking their expectations into account.

Knowledge

- Organisation theories
- Efficiency principles
- Effectiveness principles
- Productivity principles

Skills

- Delegation
- Efficiency, effectiveness and productivity
- Entrepreneurship
- Integration of social, technical and environmental aspects
- Sensitivity to organisational do's and don'ts
- Management of expectations
- Identifying and assessing alternative options
- Combining helicopter view and attention to essential details
- Total benefit analysis

Related competence elements

- All other people CEs
- Perspective 1: Strategy
- Practice 1: Design
- Practice 2: Goals, objectives and benefits

- Practice 6: Quality
- Practice 10: Plan and control
- Practice 11: Risk and opportunity
- Practice 12: Stakeholders

Key Competence Indicators

5.4.10.1 Evaluate all decisions and actions against their impact on programme success and the objectives of the organisation

Description: In everything the professional or practitioner does, the professional or practitioner is guided by the goal of the programme, which is to achieve success. This goal underpins all the professional or practitioner's decisions and actions. Every choice may have negative or positive repercussions later on, so it needs to be carefully considered. The professional or practitioner will judge new developments by the following criteria: 'Will this realise (or threaten) the objective or result, or make the process faster, cheaper and/or better, and so more of a success?'

Measures

- Considers the objectives and agreed outcomes of the programme as leading all actions
- Formulates own goals based on the objectives and outcomes
- Derives the strategy of the programme from the goals
- Judges all decisions and actions by their impact on the success of the programme

5.4.10.2 Balance needs and means to optimise outcomes and success

Description: Every choice entails allocating or denying means (resources, money, time, attention) to certain actions (tasks, decisions, questions, problems, etc.), based on perceived needs. In order to optimise means allocation the professional or practitioner must have a clear picture of the priorities of the programme. Based on that, the professional or practitioner must prioritise the various needs and balance the allocation of means based on the priorities. This may mean giving no attention or means (now) to perceived challenges or problems, as the professional or practitioner judges other needs to have more priority.

Measures

- Assesses and prioritises various needs
- Explains why certain actions get more priority
- Uses the results orientation as a means to say 'no' (and explain why)

5.4.10.3 Create and maintain a healthy, safe and productive working environment

Description: Ensuring a healthy, safe and productive working environment means providing the team with all means and limiting distractions for the team, so that they can focus on working efficiently. The professional or practitioner acts as a filter and a buffer between the environment and the team members to absorb uncertainties and ambiguities that could disturb the progress and their results orientation. In addition, the professional or practitioner facilitates the team with the necessary infrastructure and resources.

Measures

- Shields the team from outside interference
- Creates healthy, safe and stable working conditions

- Provides a clear set of work for team members to operate on
- Provides the necessary resources and infrastructure

5.4.10.4 Promote and 'sell' the programme, its processes and outcomes

Description: The professional or practitioner leading a programme often has to act as an ambassador and advocate for the programme, explaining the why, how and what (its objectives, approach, processes and agreed out-comes) to all concerned parties. The promotion reinforces the results orientation by making clear the outcomes and the need for the outcomes. This can be done by regular reporting and stake-holder engagement, but at least as often is achieved by formal and informal communication and marketing, varying from coffee-corner talks with team members to formal presentations. This marketing or 'selling' the programme is part and parcel of every communication made by the professional or practitioner leading it. The professional or practitioner preferably also invites team members, the programme owner and others to join in the marketing effort.

Measures

- Defends and promotes the objectives, approach, processes and agreed outcomes
- Seeks openings and venues to promote the programme
- Invites others to join in with marketing the programme

5.4.10.5 Deliver results and get acceptance

Description: The litmus test of every professional or practitioner is whether they can deliver, or realise what was promised, to get results. This quality requires a clear resource plan, planned outcomes, a strong belief in personal capacity and that of the team to overcome obstacles and problems, plus the overarching desire to deliver.

The professional or practitioner knows that being effective is not the same as being efficient. Effectiveness is realising the planned goals (e.g. realising the agreed outcomes within agreed deadlines, budget, quality, etc.), while efficiency is doing so with the least necessary cost and time (measured, for instance, by comparing the planned number of people against actuals). Therefore the professional or practitioner needs to constantly search for means to realise the agreed results faster, cheaper or better.

Finally, the professional or practitioner needs to be able to rally people to the cause while keeping to the planned level of productivity, knows what the professional or practitioner can and cannot do (and get away with) in a specific situation and organisation and what is politically appropriate.

Measures

- Differentiates the concepts of efficiency, effectiveness and productivity
- Plans and sustains planned levels of efficiency, effectiveness and productivity
- Demonstrates the ability to get things done
- Focuses on and shows continuous improvement
- Thinks in solutions, not in problems
- Overcomes resistance
- Recognises limitations to getting results and addresses these shortcomings

5.5 Practice

The competence area 'practice' deals with the core programme competences. It defines fourteen competences:

- Project design
- Requirements and objectives
- Scope
- Time
- Organisation and information
- Quality
- Finance
- Resources
- Procurement
- Plan and control
- Risk and opportunities
- Stakeholder
- Change and transformation
- Select and balance

5.5.1 Programme Design

Definition: Design describes how the demands, wishes and influences of the organisation(s) are interpreted and weighed by the professional or practitioner, and translated into a high-level design of the programme to ensure the highest probability of success. Derived from this outer context, design drafts how resources, funds, stakeholders' objectives, benefits and organisational change, risks and opportunities, governance, delivery, and priorities and urgency, are all considered in the way the programme is set up and laid out in a 'charcoal sketch', a blueprint or an overall architecture; and how the programme should be managed. Because all outer factors and success criteria (and/or the perceived relevance of these) often change over time, this design needs to be evaluated periodically and, if necessary, adjusted.

Purpose: The purpose of this competence element is to enable the professional or practitioner to successfully integrate all contextual and social aspects, and derive the most advantageous approach for a programme life cycle to ensure buy-in and success.

Description: Design addresses the development, implementation and maintenance of an approach that best serves the organisational objectives and takes into account all formal and informal factors that help or hinder the goals, and the success or failure of the specific programme. Design includes taking into account the intent, governance, structures and processes, relevant standards and regulations, cultural aspects, and personal and group interests in the organisation (or organisations) and the wider society. In selecting the choice for the approach, lessons learned from other projects or programmes within the organisation, the industry or from outside, and the specifics of this programme, also play an important role.

Design addresses a broad range of aspects, including governance and decision making, reporting and resources, as well as meeting standards and regulations, and complying with cultural norms and values (within the organisation and the wider society). Aspects such as perceived benefits, motivation, team and stakeholder communication, etc. have also to be taken into account. Defining these objectives, factors and criteria distinctly and clearly is a major requirement from the outset and during the execution of the programme. This activity results in a high-level architecture that will later be translated into specific components that should lead to success for the programme.

The chosen approach also includes the management and control philosophy. The architecture reflects rhythm, balance and commitment, and provides guidance to the underlying components and their place in the programme. The programme design activities have to be performed before jumping into planning, organising and executing the programme. Furthermore, during the programme's life cycle this chosen approach should be regularly 'rethought' and challenged, as circumstances change both from within the programme and from the larger context.

Knowledge

- Critical success factors
- Success criteria
- Lessons learned
- Benchmarking
- Complexity
- Project, programme and portfolio success
- Project, programme and portfolio management success
- Project, programme and portfolio management tools
- Leadership styles
- Strategy
- Triple constraint (iron triangle)
- Programme vision
- Blueprint
- Performance management
- Chunking, balancing correlated components
- Organisation programme design rules and methodologies
- Specific methodologies related to line of business and context
- Organisational models, e.g. contingency theory
- Theory of Change

Skills

- Contextual awareness
- Systems thinking
- Result orientation
- Improvements by/incorporation of lessons learned
- Structure decomposition
- Analysis and synthesis

Related competence elements

- All other practice CEs
- All perspective CEs
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

5.5.1.1 Acknowledge, prioritise and review success criteria

Description: Success criteria are measures that stakeholders use to rate and judge the success of the programme. These criteria can be both formal and informal. Formal criteria address the stated outcomes of the programme. To achieve them within the agreed constraints (e.g. strategic goals, tactical and operational objectives) is one, but just one, part of programme success. Informal criteria by which interested parties evaluate the outcome are also important. These factors may include the true reasons why a programme is started, supported, thwarted or ended. Success criteria also address the interaction with the larger context personal or group interests that are influenced by the programme or its result, depending on how a programme supports or conflicts with other initiatives, activities, goals, resources. The professional or practitioner collects, acknowledges, prioritises and completes both formal and informal success criteria for the programme and its components.

Not only the formal criteria, but also the informal ones, need to be taken seriously by the individual, as they will significantly influence the willingness of interested parties to support and cooperate with the programme and so directly influence its success. The success criteria play a crucial role in defining the approach. For instance, the approach differs significantly depending on whether the main criterion is the changing of an organisation, or the quality of the end product, or time (speed of delivery), or budget.

Success factors are elements that professional or practitioner can incorporate into their programme to increase the likelihood of meeting the success criteria and achieving a successful outcome for the programme. These factors may come from very different sources and take different shapes; they vary from using (or avoiding) specific tools, methods or techniques, to selecting specific resources, organisation setup, stages, reporting and communication means and styles, quality methods, etc. During the course of a programme, the relative importance of success factors and criteria may change, due to contextual or social aspects or the dynamics of the programme itself. Therefore the professional or practitioner periodically checks and assesses the actuality and relative importance of the success criteria and when necessary makes due changes in the approach in order to attain success. These changes may even include advising the organisation to prematurely end the programme.

Measures

- Identifies values and prioritises influences from each of the five perspective aspects relevant for success
- Recognises and assesses both formal and informal influencing elements
- Values and prioritises success criteria from each of the five perspective aspects
- Acknowledges and assesses both formal and informal success criteria
- Acknowledges and uses relevant success factors
- Performs periodic re-assessments of the relevance of success criteria
- Performs periodic re-assessments of the relevance of success factors

5.5.1.2 Review, apply and exchange lessons learned from and with other programmes and components

Description: At the start of the programme, the professional or practitioner gathers lessons learned from projects and other programmes (both from his or her own organisation(s) and from the wider community, including research and benchmarks) and applies relevant lessons in the present programme. The professional or practitioner in addition makes sure that relevant lessons learned are applied in the components. Periodically and at the end of components, the professional or practitioner

(with the team and relevant stakeholders) evaluates the approach and gathers lessons learned from the current components. They shall be shared within the organisation and within the programme itself. The professional or practitioner knows and uses the different methods and tools for distributing lessons learned in the organisation (e.g. strategic project office, knowledge base, internal social network, etc.).

Measures

- Acknowledges and gathers lessons learned (using different tools and techniques) from previous projects and programmes
- Acknowledges and gathers lessons from the professional community
- Applies relevant lessons learned
- Knows and uses different tools and techniques for sharing lessons learned
- Acknowledges and uses research and benchmarking methods for improving the performance of the programme
- Identifies and shares lessons learned from this programme with the organisation

5.5.1.3 Determine complexity and its consequences for the approach

Description: To properly select an appropriate approach, the professional or practitioner has to take into account the specific complexity of the programme – the complexity of the change and of the programme processes required. The complexity may have many causes and sources. It may be that outcomes or necessary internal processes of the programme are innovative, technically complex or strongly inter-twined. It may be that the programme involves many teams, people, suppliers, dependencies, etc. It may be that the context of the programme is very complex, for instance many stakeholders with varying interests; many interfaces with other processes, initiatives, etc. Complicating factors might include short time lines, limited budgets, etc. All these internal and external factors have to be taken into account because they play an important role in defining the approach for the programme.

Measures

- Identifies the level of complexity of the programme by applying appropriate methods
- Acknowledges complexity-enhancing aspects
- Identifies and defines the impact on complexity of the programme of specific processes, constraints or outcomes
- Identifies and assesses the impact on complexity of the programme of specific external and internal parameters
- Assesses and applies complexity-diminishing measures

5.5.1.4 Create a Programme Vision

Description: Based on the vision of what the stakeholders want to achieve, and other external drivers, a pro-programme vision is created. The vision describes why the programme is set up and what changes it wants to accomplish. This vision is needed to 'sell' the programme, to stakeholders both inside and outside the programme. From this vision, communication pay-offs may arise (for example 'from A to Better' for an infrastructural change including using more sustainable transport). The vision encompasses what the programme sets out to achieve, and may also include the way in which the programme is organised.

Measures

- Knows the importance of a programme vision

- Can transform stakeholders' visions and other external drivers into a consistent programme vision
- Is able to organise a programme vision which internal and external stakeholders can relate to
- Is able to sell the programme

5.5.1.5 Create and adapt a change strategy

Description: A programme is organised to induce a change. Change might be plannable, or it might be emergent. Change might be improving a situation (from A → A'), might be transitioning to a new situation (A → B), or might even be transforming to a new situation which is different but not (yet) completely specified (A → ?). The programme design needs to incorporate a change (or transition, or transformation) strategy, based upon a sound change. For simplicity, this strategy is called change strategy for the remainder of the document. The change strategy needs to be reviewed and adapted frequently. The change strategy needs to be based upon a sound change diagnosis.

Measures

- Knows the difference between change, transition and transformation
- Undertakes a change diagnosis to assess change and impact
- Defines an appropriate change strategy
- Defines a way of measuring the effectiveness of the change strategy
- Defines and executes effective adaptations to the change strategy

5.5.1.6 Select and tailor the overall programme management approach

Description: The professional or practitioner chooses an approach that has the highest probability of success, given the constraints of contextual influences and demands, complexity of the programme, lessons learned, known success criteria and available success factors. The approach will probably contain a vision, principles and a first cut governance structure. This approach may include a high-level definition (or modification) of scope, quality aspects, organisation, communication, documentation, planning and stakeholder approach, choice of resources, risk tolerance, management and performance criteria, etc. Based upon general or defined standards, the professional or practitioner will tailor the approach to the current need. The professional or practitioner reviews the approach periodically, because many of the contextual and social influences change over the life cycle of the programme.

Measures

- Assesses and appraises various possible approaches
- Selects an approach for the programme that has the highest chance of leading to success
- Tailors the approach to the current needs
- Explains and defends the chosen approach and its relation to the success of the programme
- Explains the main effects of the chosen approach on the organisation of the programme
- Explains the main effects of the chosen approach on impacted stakeholders
- Periodically re-evaluates the chosen approach based on contextual and internal developments
- Makes necessary changes to the approach and explains why these were made
- Assesses and appraises various possible approaches
- Ensures balance and rhythm in the approach

5.5.1.7 Design the programme execution architecture

Description: Based on the selected approach, the professional or practitioner draws the programme execution architecture. This high-level plan will be detailed via formalised plans, but the basic design only considers the essential choices and the consequences of each choice for success. Possible choices are defined by the professional or practitioner and ultimately chosen and scheduled, or abandoned, based on expected success and expected contribution. Choices made by the professional or practitioner also include the best way to lead the programme and the related projects. Programme management success is an essential part of, and prerequisite for, programme success. This may include the choice of the person who acts as the programme manager, and may change over time because of the stage the programme has reached. In the course of the programme the professional or practitioner periodically evaluates (aspects of) the design, taking into consideration the development and progress of the programme, changing contextual influences and demands, known success criteria and available success factors. This often leads to major changes in the chosen execution architecture.

Measures

- Establishes the programme architecture with outcomes
- Defines a high-level plan, including possible components, taking running components into account.
- Defines the business rules and control philosophy
- Monitors the programme against the architecture components
- Updates the architecture based on changes to the programme

5.5.1.8 Design a programme delivery strategy

Description: The programmes deliver outcomes, which in turn generate possible capabilities which may enable specific changes or contribute to specific organisational benefits. A staged, tranced or levelled approach to obtain rhythm, balance and focus, and to ensure successful implementation of change and benefits, is created. The professional or practitioner stipulates in the programme delivery strategy how, when and by whom the benefits that come from using these capabilities are to be expected, and how they are measured. This includes intermediate benefits. In the delivery strategy, the professional or practitioner also defines which outcomes need to be delivered earlier and which can be postponed, based on priorities. The delivery strategy should be flexible enough so that it can deal with opportunities or risks that arise while running the programme, but tight enough to provide guidance to the whole programme.

Measures

- Establishes the programme delivery strategy
- Identifies key timing of outcomes and benefits
- Designs a staged, or tranced, communicable approach
- Maps programme delivery strategy to risks and opportunities and adjusts accordingly

5.5.2 Benefits and objectives

Definition: Every programme is undertaken because internal and external stakeholders want to achieve something. This competence element describes the 'why' of the programme which goals are to be achieved, which benefits are to be realised, which objectives are to be reached, and which stakeholders' requirements are to be fulfilled. They are derived from needs, expectations, requirements and strategic organisational goals from the stakeholders.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish the relationship between what stakeholders want to achieve and what the programme and its components are going to accomplish.

Description: The professional or practitioner will come across many definitions regarding goals, objectives, benefits, effects, deliverables, value, requirements, output and outcome and how they relate to each other. They all present different views (and sometimes different levels) of the bridge between what stakeholders want to achieve and what a programme is going to deliver. The professional or practitioner is aware of this and will clearly define, for the purpose of the programme, what is needed in order to answer the 'why-how-what-when-who-where-for whom-...' questions.

The professional or practitioner will embark on a process with all stakeholders to come to a good definition of what the programme is going to achieve for them. These then have to be trans-formed into clearly defined outcomes and outputs of the programme, which again are communicated back to stakeholders in order to define and manage expectations. This process is conducted iteratively. Changes to both the stakeholders' views and the programme's outputs and outcomes will occur, requiring regular updates.

This process is therefore executed initially, and will be repeated on a regular basis. In order to achieve balance between stakeholders, the use of workshops instead of one-on-one interviews is very common. Stakeholders' needs and requirements need to be elicited and prioritised, clearly defining what the programme will have to realise, and for what reasons.

In the case of programmes, stakeholders' needs and requirements are translated into projected improvements, called benefits. Benefits realisation is the fundamental objective of programme management. Components, such as projects, produce outputs and deliverables (capabilities), but they are not usually responsible for the delivery of benefits.

Benefits may be quantified as either financial or non-financial. Non-financial benefits are all the benefits that cannot be easily expressed as a monetary value. This might include improvements in customer satisfaction, increased consumer awareness or improved health. Benefits may also be considered as tangible or non-tangible. Benefits are often tangible business improvements that support an organisation's strategic objective and are often measured at an operational level. Non-tangible benefits do not exist physically and cannot be easily measured. What constitutes benefits with positive value for some might constitute benefits with negative value (sometimes called dis-benefits) for others. Balancing these so that the programme is beneficial for all stakeholders is one of the key aspects in programme management. A programme often delivers multiple benefits, with each deliverable or output from components contributing. As a result, the development of a benefits map or chain (sometimes called a benefits breakdown structure) is often required, showing how each component contributes to achievement of the over-all benefit detailed at the programme level. This map can be used for tracking benefits achievement throughout the life of the programme.

Knowledge

- Temporary and permanent organisation
- Expectations, needs and requirements
- Programme charter

- Programme sponsor (owner)
- Fit for use, fit for purpose
- Value management
- Acceptance criteria
- Benefits, outcomes, outputs, goals and their relations
- Benefits mapping
- Benefits management
- Goal analysis
- Strategy setting

Skills

- Corporate strategy
- Stakeholder relations
- Knowledge elicitation
- Workshop facilitation
- Interviewing
- Formulation of objectives (e.g. SMART-method)
- Synthesis and prioritisation

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.2.1 Define and develop the goals and benefits hierarchy

Description: Every programme is started because of needs and goals of the coordinating organisations which set up the programme. From these organisational goals the programme's goals are derived: high-level statements that provide the rationale and overall context for what the programme is trying to achieve. From these programme goals, the projected benefits are derived, made explicit, prioritised and spread out over time (if necessary). The goals and benefits hierarchy is influenced and determined both by contextual factors and by elements such as specific stakeholder needs and requirements.

Measures

- Establishes the relationship between the organisational and programme goals
- Defines a goals and benefits hierarchy for the programme, preferably in a graphic form
- Explains the relevance and content of the goals and benefits hierarchy
- Regularly adapts the goals and benefits hierarchy

5.5.2.2 Identify and (if possible) quantify the programme benefits

Description: The professional or practitioner develops a benefits map, chain or breakdown structure showing by how much components deliver outcomes that lead to benefits and realise the strategic goals or objectives of stakeholders. For some components, the benefits may not be realised. A trade-off between cost and specific benefits may be required. This benefits map, chain or breakdown structure is monitored and adapted regularly, as stakeholders' goals and objectives change. It is necessary to have a 'benefits owner' for governance purposes and to make sure benefits are really needed and realised.

Measures

- Identifies programme benefits
- Establishes the relationship between the organisational goals and programme benefits
- Quantifies the programme benefits
- Communicates benefits with stakeholders
- Evaluates the benefits
- Creates benefits map
- Identifies a benefits owner, or defines why this is not needed

5.5.2.3 Develop the benefits realisation strategy

Description: The professional or practitioner (top-down) identifies intermediate programme outcomes (related to projected benefits) and translates them into outputs for possible components. The outputs are defined at a high level and are used as an input into the objectives, requirements and scope of each component within the programme. Some outputs may be realised by projects and others may be delivered by components taken on in cooperating or impacted organisations. Alternatively, bottom-up, the professional or practitioner may look at components that will be on-boarded into the programme, to analyse how they realise defined benefits. In cases where programmes emerge rather than are constructed, both bottom-up and top-down approaches are applied. A graphic representation of this might be a benefits realisation map, or a benefits components map. These are very powerful when communicating with the stakeholders. Benefits may be delivered gradually or incrementally and they may be progressively defined over the lifespan of the programme. The benefits realisation strategy is plotted on the programme delivery strategy, to show after which tranche which benefits can be expected.

Measures

- Assesses components for benefits to be realised
- Conversely, defines components which realise capabilities for the delivery of benefits
- Assigns benefits realisation to components within organisations
- Handles top-down or bottom-up approaches in defining the benefits realisation strategy
- Is able to communicate this strategy, preferably using graphical representations
- Is able to communicate, based on the staged or tranced execution, when benefits can be expected and why.

5.5.2.4 Define components, their outcomes and their interfaces

Description: The components of the programme are defined, so that they can be started when necessary. For projects, these consist of objectives, outcomes, scope, main deliverables and a rough time schedule. For component programmes, they comprise outcomes, benefits, main components and a rough time schedule. There may be interfaces between several outcomes, hence between several components. The interfaces and interdependencies between components are defined, and measures are put in place to manage these. Components are usually planned in one specific tranche or stage, to allow for balance and rhythm.

Measures

- Defines specific components in the programme
- Identifies interfaces between outcomes
- Identifies interfaces between components
- Establishes measures for success

5.5.2.5 Monitor benefit achievement

Description: A measurement approach is developed along with specific measures for each benefit. Actual out-puts and deliverables from components are measured and evaluated to determine whether programme outcomes are being achieved. Also, within the impacted actors, a measurement is set up to assess the amount of benefits realised. Such achievements are reported and communicated to key stakeholders. Where required, the benefits realisation may need to be adjusted to either new or modified project outputs or programme benefits.

Measures

- Develops a measurement approach
- Performs or organises measurements of benefits
- Monitors benefits realisation
- Reports results to key stakeholders
- Adjusts the benefits realisation strategy to realise new or modified project outputs or programme benefits

5.5.3 Scope

Definition: Scope defines the specific focus or content of the programme. It describes the outputs, outcomes and benefits and the work required to produce them. It also deals with the counterpart: describing what is not contained in or part of the programme. In essence, scope defines the boundaries of the programme.

Purpose: The purpose of this competence element is to enable the professional or practitioner to acquire insight into what the boundaries of the programme scope are and to manage this scope; and to understand how scope influences (and is influenced by) decisions regarding the management and execution of the programme.

Description: Scope covers the process of understanding, defining and managing the specific content of the programme. However, what lies outside the programme's scope also needs to be defined. Scope defines all boundaries which are often crucial to understanding and making decisions about what is part of the programme and what is not.

In the case of programmes, scope is typically described in terms of outcomes (what is achieved by implementing outputs from programmes in the impacted actor community) and benefits (realised by the impacted actor community by using the outcomes). The outputs required providing the outcomes and benefits, plus the development of solutions for those outputs, are delegated to the level of components. Scope management in programmes is performed on two levels: managing the scope of the programme itself, and setting the scope of components. So, part of programme management is also setting, or influencing, the scope of the components.

Knowledge

- Configuration management
- Hierarchical and non-hierarchical structures
- Planning packages
- Scope definition (with exclusions)
- Scope gathering methodologies, e.g. use case scenarios, history writing
- Scope creep
- Constraints
- Work breakdown structure (WBS)
- Product breakdown structure (PBS)
- Work packages
- Agile development

Skills

- Scope configuration
- Prioritisation

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

5.5.3.1 Define the programme scope

Description: The programme scope is defined by the projected outcomes. An outcome is the effect achieved by implementing the tangible and intangible outputs of components. Moreover, the programme deliverables are the measurable results by which the programme management success is judged. Sometimes, programme scope will also define the applicability of certain outcomes for certain communities, certain geographical areas, certain organisational entities, etc. An important part of the scope is also defining which part might be expected by stakeholders, but is not considered to be addressed by the programme. So, it is 'outside the scope'. When outcomes are put outside the scope but are crucial to the success of the programme, the professional or practitioner needs to assure that these artefacts are covered in another way. Defining the scope means taking into consideration what different stakeholders want from the programme, and clarifying what exactly they will receive and approximately when. It also means clarifying what they will not receive, or at least not immediately.

Measures

- Defines the programme outcomes
- Knows and explains the difference between objectives, benefits and deliverables

- Negotiates and clarifies what stakeholders will receive and what not, and at what time
- Balances between stakeholders' wishes and programme performance

5.5.3.2 Define the scope structure of the programme

Description: The scope of the programme is broken down into the proposed scope of the components. In this way, it is possible to assess whether the expected programme scope is indeed organised by its components. Since the programme is developing over time, defining the scope structure is done regularly.

Measures

- Defines scope of components
- Assures that the scope of components covers the scope of the programme
- Explains the scope structure of the programme
- Adapts the scope structure of the programme when needed in order to remain effective

5.5.3.3 Manage the scope of the components

Description: During the course of the programme, components might undergo scope changes, or the programme itself might also undergo scope changes. The professional or practitioner needs to be aware of these changes, and be able to address them. This involves rescoping components, having some components taking over scope from other components, or changing the scope of components. The professional or practitioner needs to be aware that scope changes usually have a large impact on components, so they should not be made lightly. The component managers need proper time and resources to adjust to the changed scope. The way in which scope changes are implemented very much depends on the agreed governance structure.

Measures

- Defines scope of components
- Assures that the scope of components covers the scope of the programme
- Assesses the impact of scope changes on an component
- Implements changes according to the governance structure

5.5.3.4 Establish and maintain scope configuration

Description: Scope configuration management helps minimise deficiencies, errors and unintended scope creep. Scope configuration management is meant to ensure that the scope is aligned with the agreed stakeholder needs and requirements, and that all resources assigned to the programme are working with the same version of the product. Programmes operate within a dynamic environment whereby changes occur and need to be captured and managed, as opposed to being treated as obstacles and as something hampering programme success. A scope configuration mind-set is characteristic of an iterative (e.g. agile) approach to the programme, and is value driven as opposed to plan or task driven. Scope configuration management is often a continuous process.

Measures

- Manages the scope configuration
- Defines roles and responsibilities related to scope configuration management
- Relates the dependency of scope configuration and the overall approach to the programme (sequential or iterative)
- Compares progress and earned value against a baseline plan

5.5.4 Time

Definition: Time includes the identification and structuring of all components of a programme in time in order to optimise the execution.

Purpose: The purpose of this competence element is to enable the professional or practitioner to define, sequence, optimise, monitor and control all components necessary to delivering the agreed outcomes of the programme.

Description: The aim of time scheduling is to determine what components need to be carried out when, in order to optimise the execution of the programme. In the case of programmes, the aim of time scheduling is to determine what (sub-) programmes, projects and other related activities need to be carried out and when, in order to optimise programme execution. The sequencing needs to cater for available resources, change strategy and adaptability to change of the impacted actors. The schedule of a programme is often called a road-map, to illustrate that its predictability is much less than that of, for example, a project schedule. Within a programme there will be:

- Components that are under way with their own schedules
- Components that are yet to be initiated (and therefore probably not even thoroughly designed)
- Outcomes of (finished) components that are being transformed into realised benefit
- Programme management activities

This whole range of activities must be collected into an effective and manageable, tranced or staged programme roadmap. Time scheduling includes defining the interfaces between components within a tranche, as well as their duration and timing. A tranche usually has internal consistency and logic. In between subsequent tranches, the programme has a logical checkpoint, sometimes referred to as 'island of stability' or 'island of reflection', when the progress and setup of the programme can be evaluated and redefined. The upcoming tranche in the roadmap needs to be defined in more detail than the tranches further away in time.

Knowledge

- Planning types
- Estimation methods
- Milestones
- Fast modelling and prototyping
- Spiral/iterative/agile development process
- Trenching

Skills

- Define dependencies
- Sequence components
- Estimate programme activity resources and duration
- Explain the logic behind the roadmap

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes

- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.4.1 Sequence programme components and create a tranced roadmap

Description: Components within a programme are dependent on the availability or on previous realisation of other components. Based on these known dependencies and the durations of each component, sequences can be defined and the programme roadmap created. This is done in tranches or stages. Time management of the components is done by the components manager themselves. Which component goes into which tranche, is influenced by for example:

- Interdependence between components
- Rhythm of the programme
- Balance of resources within the programme
- Being able to assert meaning to tranches (for example: in order to achieve a 'defined' maturity level), or to explain the programme's timing
- Early collection of benefits to ensure stakeholder buy-in
- Risk spreading

Measures

- Sequences a series of programme components into tranches
- Determines dependencies and dependent relationships within tranches
- Redefines the tranced roadmap to adapt to change

5.5.4.2 Manage the consistency of the tranches

Description: A tranche has an internal consistency, defined by the component and their interdependencies. This consistency has to be guarded by the professional or practitioner. The professional or practitioner has to assess the pace of component and to see whether interventions are needed to ensure the consistency. Also, the pace of the component has to be aligned with the activities that take place at programme level, e.g. programme communication, stakeholder engagement and interface management.

Measures

- Knows the relationship between components and their respective outcomes
- Manages the interrelationship between components, and their relationship to programme activities
- Can assess the pace of components, and influence the pace in order to achieve the needed outcome to ensure benefits realisation.

5.5.4.3 Manage the transitions of tranches

Description: When a tranche has ended, the next tranche can be started. This interim period provides for an 'island of stability', or 'island of reflection', where the effectiveness of the programme can be assessed. The next tranche can be started as planned, or can be adapted if necessary. This needs to be a conscious decision, for the programme and the impacted stakeholders, based upon learning from

the performance of the programme so far, on the adaptability to change from the impacted actors, and on the current and future situation in the force-field of stakeholders.

Measures

- Captures lessons learned from the past tranches
- Aligns with the current stakeholder force-field
- Adapts the roadmap to cater for changes
- Ensures commitment for the new roadmap
- Organises the new tranche and sets it in motion

5.5.5 Organisation and Information

Definition: Organisation and information includes the definition, implementation and management of the temporary programme organisation. Organisation and information also includes the definitions of required roles and responsibilities as well as effective information exchange for the temporary organisation. This competence element also includes the creation and storage of documentation, reporting structures and the programme internal information flows.

Purpose: The purpose of this competence element is to enable the professional or practitioner to create a high performing temporary organisation, which also includes the inseparable link between organisational structure and information processes.

Description: This competence element describes how the programme is organised. The organisation and information competence embraces both human resources and associated information processes. The organisation also covers the programme's roles, responsibilities and mandates on the various levels. Usually, it (at least) distinguishes between the sponsor level, the programme level and the level of components. It describes the (formal) information flows between these levels, so that each level is able to take the assigned responsibility and base decisions on high quality information. Usually, the sponsor level is accountable for the definition of the benefits and scope of the programme, the project level is accountable for delivering quality outputs, and the programme level is responsible for ensuring the outputs all contribute to realising the programme's objectives.

For all levels to achieve high quality decision making, they should be supported by the right, timely, high quality information. The professional or practitioner is responsible for information quality, timeliness and flow. Internal information, documentation and communication are closely related to the management of the organisation and encompass identifying the information needs, establishing the required processes and information infrastructures and finally monitoring the internal and external information flow.

Knowledge

- Organisational models
- Document management systems
- Information and documentation systems
- Information plan
- Regulatory requirements
- Information security

Skills

- Involve / convince others

- Staffing of organisation
- Task delegation
- Empowerment
- Management of interfaces to other parts of the organisation
- Using software tools in the office
- Preparation techniques for official documents
- Information management planning

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 6: Teamwork
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.5.1 Design and implement programme governance framework and rules

Description: Governance addresses the way in which organisations want to influence programmes. It therefore also defines the boundaries for the mandate of the components. In many cases, the governance structure is provided by the organisation(s) running the programme, in which case the professional or practitioner has to understand and use what's available. In some situations, the quality of the governance is insufficient for the programme. In some cases there is more than one coordinating organisation. In these cases, the professional or practitioner has to be able to design and implement a governance structure. This structure has to fulfil some basic quality criteria in order to be effective.

The governance structure is described, communicated and implemented in accordance with power and interest, rules and regulations, and in line with the goals the programme wants to achieve. It should be targeted towards achieving value for the coordinating organisations and provide clarity and mandate for the programme. The governing body is the highest escalation level of risk management (from the viewpoint of the programme), so should be set up in this way, with regards to power, and information gathering. It should reflect the values of the organisations and be sustainable for at least the lifetime of the programme. Governance should respect all the rights of the stakeholders, and respect the integrity and security of information and data.

The governance structure of the programme will also influence the governance structure of the components. The governance structure should make clear what mandates are given to coordinating organisations, the programme and its components, and all governing bodies that surround it.

Measures

- Can explain various methods of programme governance and project governance

- Can distinguish between mandates for several roles, e.g. programme sponsor, project sponsor, programme manager, project manager, programme board, project board, portfolio manager, line manager, business change manager, resource manager, etc.
- Is able to define and explain a valid governance structure for the programme
- Can address and mitigate the risks that come from a governance structure which is not completely in line with the coordinating organisation's expectations
- Is able to change the governance structure when necessary, including the change management that goes with changing mandates and roles

5.5.5.2 Define the structure, roles and responsibilities within the programme

Description: The professional or practitioner can structure the temporary organisation in various ways and is aware of the influences from governance and contextual characteristics such as strategy, structures and processes, power and interest, standards and regulations, culture and values. Applied technologies, anticipated solutions, required competences and the geographical location of the component's participants will also have a high impact on the design of the organisational structure. The professional or practitioner knows about advantages and disadvantages of different structures and is also capable of designing, staffing and implementing the temporary organisation. As part of this organisation, roles and responsibilities are clearly defined and decision making authorities and delegation levels are identified.

Measures

- Explains fundamental ways to structure a temporary organisation
- Designs and develops a management framework and structure
- Defines the responsibilities of the various key personnel
- Identifies links to and interfaces with corporate governance arrangements
- Identifies and records the differences between the programme's authorities and the components' authorities

5.5.5.3 Establish infrastructure, processes and systems for information flows

Description: For that all levels are able to take high quality decisions, they should be informed in a timely, high quality manner. The professional or practitioner ensures this by providing processes, structure and systems. These should make sure information is correct, and is only visible to those entitled to use it. How to limit and/or prevent redundant information is a key success criterion for establishing efficient information processes, and information must be consistent and unambiguous. Information infrastructures cover the systems, means and methods required for documenting, storing and communicating the internal information. Information infrastructures and IT are inseparable in modern organisations and consequently, being aware of the corporate IT systems and policies is important for the professional or practitioner.

Measures

- Explains the purpose and contents of information processes
- Provides internal information via various methods
- Ensures redundant information is limited and/or prevented
- Explains the benefits of different types of meetings
- Explains what is covered by an infrastructure for information
- Establishes planning and control mechanisms (e.g. documentation of key decisions)
- Uses information configuration management and versioning

- Is aware of information security and implements this in the processes and systems

5.5.5.4 Implement, monitor and maintain the organisation of the programme

Description: The professional or practitioner knows how to manage the programme's organisation including implementation, monitoring and maintenance of the temporary organisation. Implementation means to make the initially defined organisational structure operational – to make it work. However, implementation also includes changes to the organisation when necessary. The need for changes to the temporary organisation should be anticipated as the programme evolves. Any given structure of an organisation is valid only for a limited period of time. In particular, changes in contextual factors (such as strategy and/or power and interest) tend to influence the temporary organisation and call for changes or minor adjustments. Through the ongoing monitoring of the programme's environment, the professional or practitioner has to proactively envisage the need for changes to the temporary organisation.

Measures

- Implements new organisational structures
- Monitors the organisation, including the roles involved
- Adjusts the organisation, including the roles involved

5.5.6 Quality

Definition: Quality in programmes has two key drivers. On the one hand, it is about the quality of the process, the way in which the programme is organised. This is about developing, implementing and reviewing standards for the way quality is addressed in components. On the other hand, it is about managing, assuring and controlling the quality of the output and outcome of each component. Quality encompasses the entire programme from initiation to post-transition, throughout the whole life cycle.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish and manage the quality of the components and their outcomes and to recognise quality as an invaluable tool for the benefits realisation management process.

Description: Quality in programmes is on the one hand about ensuring the right quality of (intermediate) services or products delivered (specific to projects). On the other hand, it is about ensuring that quality processes are well implemented throughout the programme and the components. Ensuring quality processes are well implemented means setting a standard and measuring its effectiveness. Usually this is based upon the quality standards and methods of the organisations that are part of the programme, as sponsor or as supplier. These should be tailored towards this programme, and then implemented, measured and adapted. In programmes, ensuring quality of outputs is done by the component (sub-) programmes, projects or other activities.

Knowledge

- Validation and verification
- Process quality management tools, e.g. Lean, Six Sigma, Kaizen
- Product quality management
- Cost of quality
- Quality management standards, e.g. TQM, EFQM, Theory of Constraints, Deming Cycle
- Organisational quality analysis tools
- Standard operating procedures

- Policies implementation
- Utilising indicators
- Inspection methods and techniques
- Risk based testing

Skills

- Analysing the impact of quality management on programmes, components and people
- Implementing a standard (process and people)
- Adapting a quality standard
- Correcting people's and the group's behaviours with a wide variety of interventions
- Developing and executing quality plans
- Conducting quality assurance procedures
- Performing quality audits and interpreting their results

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 6: Teamwork
- People 8: Resourcefulness
- People 10: Results orientation

Key Competence Indicators

5.5.6.1 Ensure quality throughout the programme

Description: Based upon quality procedures in the organisation(s), and upon quality procedures of suppliers, a quality approach for the programme is chosen and implemented. It should be fit for purpose, and implementable with relative ease. Adaptation, integration and implementation will require dealing with several organisations (or parts of organisations), who all prefer doing it their own way. Once implemented, regular check-ups and improvements need to take place, to maintain the fitness for purpose. Since quality is mainly about people, not only about processes, special attention should be paid to quality awareness and 'the right quality for the programme.

Measures

- Assesses, adapts and integrates quality standards being used by organisations
- Implements quality processes in the programme
- Conducts regular assessments of the implemented processes and improves them when needed
- Implements quality awareness in the programme, so that all the people involved know what quality is required

5.5.6.1 Organise quality assurance of the programme

Description: Quality of the programme is defined as the way in which the programme reaches its goals. Based upon the CSFs and KPIs set for the programme in the programme's design, the professional or practitioner defines procedures and structures to measure and assure that the programme performs according to the design, and takes action when needed. Typical themes for programme quality

assurance are alignment with strategy, effectiveness of change, attractiveness of vision, coherence, focus on benefits, value added and effectiveness of learning.

Measures

- Uses the concept of programme quality assurance
- Measures the programme's performance with respect to the CSFs and KPIs
- Takes action to improve the programme's quality performance

5.5.7 Finance

Definition: Finance includes all activities required for estimating, planning, gaining, spending and controlling financial resources, both inflow and outflow to the programme. Finance therefore includes the cost management (outflow often related to a budget) as well as the financing (inflow external to the organisation) and/or funding (inflow from within the organisation) required for successful management of the programme.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure that enough financial resources are provided to the programme at any time, that the financial targets of the programme can be met and that the financial status is monitored, reported and properly used for adequate management of financial resources.

Description: Initially the professional or practitioner has to make an estimate of the costs that are necessary to execute the programme i.e. define the budget. The professional or practitioner also has to take actions relating to the way the programme is and the components are financed or funded. The professional or practitioner therefore has to know what the planned (or expected) and actual costs of the programme are and how they relate to the progress of the work done and the objectives achieved. In addition, cost management systems have to be established within the organisation of the programme. These are used to monitor the financial status and provide a forecast on financial and performance issues so the professional or practitioner can make appropriate decisions.

The professional or practitioner needs to know what funding is contracted and expected, sometimes even across multiple organisations. In this way, the professional or practitioner can use the performance indicators to make forecasts of the future performance of the programme and, if cost breaches are signalled, the professional or practitioner reports on these according to the programme organisation and governance and suggest appropriate mitigation plans. The term 'funding' is used when an organisation finances the programme internally; the term 'financing' is used when the organisation acquires funds for the programme from external sources, e.g. loans, joint ventures, etc.

For every programme, the proper management of cash flow in terms of expenditure and income is crucial. The cash inflows and outflows must be calculated and evaluated regularly so the appropriate actions can be taken to ensure sufficient financial resources. The setup of the financial management system has to be made in cooperation with the financial and/or treasury department(s) and other relevant parts of the permanent organisation(s).

Knowledge

- Financial accounting basics (cash flow, chart of accounts, cost structures)

- Cost estimating methods, e.g. single or multi-expert estimations (Delphi method), historical data, analogies, effort models, parametric estimations (function point method), three point estimation
- Cost calculation techniques (e.g. direct, indirect calculation, activity- based costing, etc.)
- Design-to-cost/target costing
- Processes and governance for cost management
- Methods for monitoring and controlling expenditures
- Performance indicators (earned value)
- Reporting standards
- Forecasting methods (linear, parametric, velocity analysis)
- Financing options
- Funding sources
- Financial management concepts and terms such as (but not limited to) cash flow, debtasset ratio, return on investment, rates of return
- Contingency approaches
- Relevant conventions, agreements, legislation and regulations, including (but not limited to) taxation, currency exchange, bilateral or regional trade agreements, international commercial terms, World Trade Organisation determinations

Skills

- Convincing/negotiating with sponsors
- Scenario techniques
- Interpreting and communicating the actual cost situation
- Developing financial forecasts and models
- Reading financial statements
- Interpreting financial data and identifying trends
- Financial management approach analysis
- Developing a programme budget
- Setting frameworks for resource programme cost estimation
- Directing and authorising cost strategies and cost management plans
- Developing and maintaining cost management systems
- Conducting analysis, evaluating options and implementing responses to project or programme cost variations

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

5.5.7.1 Determine the programme funding and financing strategy

Description: The programme needs funding throughout its lifetime. A strategy needs to be developed as to how to obtain this funding from different sources. The strategy also defines the responsibility for funding of the programme and the component within the programme. This is not only based upon the funding needs, but also the timing of when the funding is needed. The strategy must also address the requirements that need to be satisfied to obtain the funding, the flexibility of the strategy and the risks the strategy causes. If necessary, different alternatives need to be worked out. The strategy needs to be regularly revisited, revalidated and optimised.

Measures

- Identifies programme funding strategies
- Develops the accountabilities for the programme funding
- Revisits and optimises the funding strategy periodically

5.5.7.2 Determine and establish the programme budget

Description: Based upon the components that are part of the programme, and upon the projects and activities that are planned and executed by the programme organisation itself, a budget is determined. This could be a total budget for the entire programme, a budget for the programme organisation only when the components are self-funding, or it could be a combination of both. The budget could also be restricted to a certain period of time. The budget and the assumptions that underpin it are revisited regularly, on the one hand to deal with changes within the programme, and on the other hand to harden assumptions, thereby making it possible to reduce slack budget.

Measures

- Determines the programme budget
- Monitors the performance of the budget spending
- Revises the programme budget if necessary

5.5.7.3 Develop, establish and govern a funding and financial management framework

Description: Financial procedures need to be maintained or developed in order to ensure that funding which is organised reaches the appropriate component. They also need to ensure that the requirements to obtain the funding are enforced within the framework. A transparent financial governance structure is developed and put into place. Also, financial accounting and controlling procedures may be needed and in that case these need to be organised. The professional or practitioner must also make sure that each component has been approved by the proper authorities. The professional or practitioner also maintains and, if needed, develops and governs performance management indicators to monitor the relations between components within the programme (e.g. earned value or critical chain reporting). The performance management system should be closely linked to organisational accounting and controlling processes.

Measures

- Defines and maintains governance of the programme for financial management
- Develops a financial management structure
- Integrates the financials with the accounting and controlling processes of an organisation
- Disseminates financial performance indicators on to the lower levels

5.5.7.4 Distribute programme funds based on the needs of components and funding conditions

Description: The funding strategy and the funding and financial frameworks need to be staffed, organised and operated, so that the obtained funds are put to use. This needs to be regularly checked and improved to make sure everything is done correctly and speedily. Internal checks are done to ensure the funds are spent according to the agreements and the needs of the components. If cost breaches are forecasted from the components, the professional or practitioner must either mitigate the deviations using the programme budget contingencies, or report according to the programme's organisation and governance, and suggest an appropriate mitigation plan.

Measures

- Determines the programme funds distribution strategy
- Distributes the needed funds across the programme
- Estimates the future needs of the programme
- Suggests mitigation plans to the higher instances for any cost breaches which could not be handled by the programme budget contingencies

5.5.7.5 Provide reports to funding and financing bodies

Description: Funding bodies need formal reports that prove funds are spent wisely and according to the signed agreements. These reports need to be provided and presented regularly. The professional or practitioner needs to ensure that the reports are in line with the overall reporting system of the organisation.

Measures

- Aligns the programme reports with the rest of the organisation
- Uses the reports from within the programme to derive the overall report
- Delivers regular financial reports

5.5.8 Resources

Definition: The resources competence element includes defining, acquiring, controlling and developing the resources that are necessary to realise the programme's outcome. Resources include people, expertise, facilities, equipment, materials, infrastructure, tools, and other assets required to carry out the programmes according to the objectives. This competence element includes defining a strategy for acquiring and utilising the resources for the best performance of the programme, optimising the utilisation of the resources given the time and financial constraints, and the continuous monitoring and control of these.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure that the resources required are available and assigned as needed in order to meet the objectives.

Description: To realise its objectives, a programme needs resources. Managing resources means applying a proper approach to defining and obtaining these resources. Resource allocation must be prepared during the planning phase and should be continuously monitored and adjusted throughout the whole life cycle of the programme. The professional or practitioner should make sure that the human resources have the necessary competences and that they are provided with adequate information, tools and training to perform the required tasks successfully. Since resource need and availability change regularly, for both controllable and uncontrollable reasons, resourcing is a continuous or regular process.

In the case of programmes, professional or practitioner often have to negotiate with the permanent organisation (s) or external service providers in order to obtain the desired resources. The programme might be responsible for getting these resources, but this also might be the responsibility of the coordinating organisations or collaborating actors. However, the programme is responsible for ensuring the mechanism is available and clear for all involved stakeholders. Even when the professional or practitioner is not responsible for resources for components, the professional or practitioner is likely to be responsible for ensuring that resource conflicts and shortages (in quality or quantity) that hamper the timely delivery of benefits are identified. Therefore, processes, procedures and people should be in place to identify possible risks and provide countermeasures.

With some kinds of resources, conflicts in availability may occur due to unexpected events such as funds shortage, performance troubles, equipment failure, weather, labour unrest, etc. Such conditions may require re-scheduling of activities and a change in the resources involved in the current or subsequent activities, especially if critical activities are affected by such events. Procedures should therefore be put in place to identify such unexpected events and ensure that the necessary adjustments are made as soon as possible.

Knowledge

- Resource allocation methods
- Resource assessment
- Resource utilisation calculations and collection techniques
- Competence management
- Procurement processes, supply and demand concepts
- Training

Skills

- Resource planning, allocation and management
- Identifying and classifying different ways of working
- Developing resources skills matrix – identifying skills and documenting professional or practitioner skills gaps
- Prioritising and allocating resources, given multiple competing priorities

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 5: Leadership
- People 6: Teamwork
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.8.1 Develop strategic resource plan to deliver the programme

Description: The strategic resource plan stipulates who is responsible for which part of the resource definition, resource allocation, resource development, resource distribution and resource freeing. Responsibilities may be with the programme manager, with the organisations, with resource managers or with the component. The strategic resource plan needs to be in line with the schedule. The professional or practitioner develops, organises and assesses a plan and adapts it to changes whenever needed.

Measures

- Identifies programme resource requirements based on resource forecasts
- Defines the responsibilities for resource management
- Captures baseline of existing and proposed resources
- Reviews and analyses the resource capacity of the organisation and identifies trends

5.5.8.3 Define the quality and quantity of resources required

Description: The professional or practitioner has to identify the resources (type, quantity and quality) that are needed to successfully deliver the programme, based on the strategic resource plan. Resources can be people, expertise, facilities, equipment, materials, infrastructure, tools, non-financial funds, or services. After identifying these resource needs, a more detailed analysis is conducted that defines when the resources need to be available and of what quality and in what amount they are needed. This may result in a detailed operational resource plan, or in some cases more than one.

Measures

- Describes the resources needed for the programme
- Draws up a resource plan
- Defines the amount and quality of the required resources
- Defines the responsibility for actually developing or ensuring these resources

5.5.8.4 Identify the potential sources of resources and negotiate their availability

Description: Once the needed resources have been defined, the right resource providers must be identified. Resources can be sourced with the organisation(s) that are cooperating, collaborating, or partners in the programme, or they can come from commercial parties. Many organisations provide sourcing guidelines that have to be followed. Especially when 'make or buy' decisions have to be taken, the professional or practitioner must rely on formal and informal networks.

Measures

- Takes 'make or buy' decisions
- Creates and evaluates sourcing alternatives
- Defines a sourcing strategy
- Addresses resource providers
- Negotiates resource availability

5.5.8.5 Allocate and distribute resources according to defined need

Description: Resource distribution means assigning resources to the programme and its components, according to the strategic resource plan. This enables monitoring, controlling and management of the

resources, their results and the related costs. Allocating resources is closely linked to scheduling. Changes in the schedule and changes in the resource availability or quality often affect each other. The conditions under which resources are allocated and contracted need to be adhered to. When there are conflicting resource needs, the professional or practitioner needs to consider all options and come up with the best way to handle these needs, based on priorities, urgency, or other criteria. Measures to overcome resource shortage have to be developed and implemented. The professional or practitioner has to be able to organise the resource distribution and adapt the distribution when needed. This is not only for the resources the professional or practitioner is directly responsible for, but also for resources critical to the realisation of benefits that are under the jurisdiction of other parties (stipulated by the strategic resource plan).

Measures

- Implements resource plan
- Assigns resources
- Evaluates their effectiveness and added value
- Negotiates resource conflicts

5.5.8.6 Evaluate Resource Usage

Description: All the relevant resource parameters and indicators must be monitored to ensure the proper usage of resources. In the case of over or underestimation, assignments must be adjusted. The professional or practitioner should regularly evaluate the quality and availability of assigned resources. In the case of external resources, consultations with suppliers and other contractors may be necessary in order to improve or exchange the resource. The performance of people may also have to be improved. These people would then need development, coaching and specific training measures. This should be negotiated and coordinated with their suppliers. The professional or practitioner is responsible for allocating and reallocating critical resources, even beyond the resources for which the professional or practitioner is directly responsible.

Measures

- Defines a systematic approach to evaluating the use of resources
- Provides opportunities to enhance competences/skills
- Addresses a skill shortage with the relevant team member, his or her management or suppliers

5.5.9 Procurement and partnership

Definition: Procurement is the process of finding, agreeing terms and acquiring goods, services or works from an external source, often via a tendering or competitive bidding process. The process is used to ensure the buyer receives goods, services or works at the best possible price, when aspects such as quality, quantity, time, and location are compared.[1] Corporations and public bodies often define processes intended to promote fair and open competition for their business while minimizing risk, such as exposure to fraud and collusion.

Almost all purchasing decisions include factors such as delivery and handling, marginal benefit, and price fluctuations. Procurement generally involves making buying decisions under conditions of scarcity. If good data is available, it is good practice to make use of economic analysis methods such as cost-benefit analysis or cost-utility analysis.

It includes all processes, from purchase planning to make the purchase and contract administration. Because procurement focuses on the suppliers outside the parent organisation it procures resources (people, tools, material, and sub-deliverables) that are not available from within the organisation. This competence element also includes choosing or taking the optimal procurement routes, which should fit the long term objective of the client but also the organisation (e.g. partnership, joint ventures, etc.). These routes can mean sharing funding, expertise, etc., but also entail the risks of failing on the market.

Purpose: The purpose of this competence element is to enable the professional or practitioner to obtain the best value possible from the chosen suppliers or partners, and thus deliver the best value for the buyer and the organisation.

Description: The process of procurement enables organisations to acquire the necessary resources that these organisations do not possess or produce themselves (at least, in the amounts needed). The procurement policies of the organisation or organisations are often imposed top-down. When procurement aspects involve a substantial portion of a programme, or when there are multiple procurement items, the procurement approach should be documented in a procurement plan covering at least:

- Types of contracts to be used
- Roles and responsibilities
- Supplier selection procedures
- Subcontracting rules

The management of procurement is either performed by professional or practitioner assigned to component projects or delegated to specialists or departments (e.g. legal department, finance department) or directed by the programme level. Strategic considerations such as sustainability, lifecycle costs and reduced overhead from the development of positive relationships with suppliers, partners or buyers, and the risks connected with them, must also be taken into account.

For each item to be acquired, the basic process includes defining needs, identifying potential suppliers or partners, obtaining technical and financial proposals, selecting a preferred supplier or partner and negotiating an agreement with the preferred supplier, making the purchase and contract administration. The inventory, disposals and other relevant functions are often considered as indirect procurement. The amount of effort devoted to each step should correspond to the size and complexity of the item being procured.

An exchange of goods or services between units of the same legal entity may sometimes be treated as procurement. In such cases, the procurement should be treated as if it were between independent parties and subject to the same degree of control.

In the case of programmes, one way of ensuring resources in a network of stakeholders and organisations is to develop formal partnerships, based on formal agreements. These partnerships are either existing (from strategic choices made by the organisation(s), or from previous co-oper-ations), or have to be defined and organised as part of the programme.

Knowledge

- Sourcing strategies
- Make/buy analysis

- Supplier development methodologies
- Organisational procurement policies, procedures and practices
- Procurement methods (e.g. RFI, RFP, RFQ)
- Contract types (e.g. firm fixed price, time and materials, cost plus)
- Claim management processes, methods and tools
- Tender procedures and practices
- Contractual judicial knowledge
- Contractual terms and conditions
- Supply chain management
- Types of alliances and partnerships (e.g. public-private partnership, joint venture, consortium)

Skills

- Tactical know-how
- Presentation
- Contract administration

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 4: Relations and engagement
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.9.1 Maintain and govern the procurement system for the programme

Description: The professional or practitioner has to ensure that the programme organisation has integrity in procuring goods and services. Therefore, a procurement governance system has to be established to ensure an overview over the procurement routes pursued within the programme at any time. The professional or practitioner must make sure that every component running under the respective programme uses mandatory procurement methods and aligns with internal (i.e. organisation-tailored) and external rules (i.e. regulation).

The professional or practitioner also makes sure that each component has been granted approval by the respective organisational function/processes. Although the procurement often happens on the project level and should be conducted by the project team (or a dedicated team within the programme), some decisions may have to be influenced at the programme level (e.g. procurement influenced by strategic alliances and long term partnership arrangements). The professional or practitioner should also maintain, develop and govern the procurement process by monitoring the obligations arising from the contracts and pre-set by the project procurement plans within the programme.

Measures

- Defines and maintains governance of the programme procurement
- Controls and aligns the programme procurement routes with the internal and external rules

- Integrates the project procurement plans within the programme and suggests possible synergy strategies
- Assesses the specifics of the procured goods and services and suggests partnership models (e.g. joint ventures, long term partnerships, etc.)

5.5.9.2 Develop partnerships

Description

- Potential alliances and partnerships are developed and potential collaborators are identified.
- The benefits and outcomes of the potential partnership or alliance are identified for all parties.
- A relationship is established and developed with potential collaborators.

Measures

- Identifies and evaluates opportunities for alliances and partnerships
- Identifies and evaluates potential collaborators
- Identifies possible benefits for the programme and collaborators
- Establishes relationships with partners

5.5.9.3 End partnerships

Description: Partnerships can be ended by design, or because the formal relationship is no longer beneficial to the organisations or stakeholders. Ending a formal relationship usually has (at least) legal and financial consequences that need to be considered. Often, an organisation is likely to want to form alliances with the same partners in the future, so the ending of a formal relationship should be handled carefully.

Measures

- Closes all formal contractual agreements
- Identifies opportunities for future cooperation

5.5.10 Plan and control

Definition: Based on the design, all elements come together in a balanced plan, the execution of which is controlled. The plan should be regularly updated, based on changes happening within the programme or in its context. Control is also regularly adapted and improved, so that the professional or practitioner remains in control.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish and maintain a balanced and integrated view over the management of a programme. Maintaining the balance, consistency and performance is crucial in order to achieve the agreed outcomes.

Description: The plan and control competence is where all information comes together and decisions are prepared or taken. Many processes and activities are described (and managed) in detail in the other competence elements. In this competence element, they are viewed and managed in combination, as stipulated in the architecture document, developed in design. The basic, cyclic process is: plan, execute, monitor, adjust plan or adjust execution, as laid down by Deming's cycle, plan-do-check-act. When managing programmes, the focus lies on: integrating, balancing, pacing, synchronizing, getting into a rhythm, creating synergies, focussing on achieving what needs to be achieved, when it needs to be achieved. Programme management is mostly indirect steering, because all components have their

own scope, mandate, governance. Based upon the programme architecture, current progress of the components is monitored. Possible indicators are: speed of outcome delivery, quality of realising benefits, the speed of achieved organisational change, general cost of execution, etc. Based on the programme design and tranced roadmap, a detailed plan is derived that stipulates the components that are undertaken. Programme management will speed up components, slow them down, start new components, stop or re-scope components.

Once the programme is established, monitoring processes should be in place. These processes gather information regularly on progress, finances and utilisation of resources compared with baselines, adherence to quality and other standards, stakeholder satisfaction, etc. Regular reporting (both by components to the programme and by the programme to stakeholders) is an essential part of monitoring.

To continuously support the learning process, the performed management effort should also be evaluated on a regular basis. Based on this information, changes may be required. A predefined and transparent change management process is another essential element of programme control. In between tranches, an evaluation should take place and a report is prepared stating the programme's progress, success and lessons learned.

Knowledge

- Phase/stage transitions
- Reporting
- Programme governance models (controlling, coordinating, networking)
- Integration
- Managing the portfolio of components
- Decision management
- Dashboard
- Programme office
- Deming cycle (plan-do-check-act)
- Request for change
- Management by objectives
- Management by exception
- Lessons learned report
- Phase/stage/sprint/release planning
- Request for change
- Decision to fund and make or buy
- Exception reports
- Issue reports
- Project management plan
- Project (phase) evaluation
- Discharge
- Decision-making authority

Skills

- Progress control meetings
- Reporting

- Negotiation of change requests
- Start-up workshop
- Kick-off meeting
- Close-out meeting
- Issue management
- Earned value analysis
- Slip-charts
- Evaluating programme performance

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.10.1 Establish the programme

Description: There are two general ways programmes can be established. Bottom-up, by clustering already running components together and adding benefits steering to them (so that not only are outcomes delivered, but benefits are actually achieved). Or the programme is created 'top-down', by design. In that case, there is an analysis period in which the programme is created, based on projected benefits and a developed initial architecture. As part of the establishment of the programme, the required programme infrastructure must be put in place. This may include office space, technology infrastructure and a programme management team, as well as any supporting policies, procedures, tools or systems. One important aspect in establishing a programme is actually branding. It needs to stand out from all the other initiatives and things going on in the organisation(s). Once it has a good name, the programme gets awareness, it gets reality. Good practice, whether the programme is created bottom-up or top-down, is to have programme start-up sessions, in which major stakeholders come together and create a sound and common view on (at least) benefits, architecture, governance and delivery strategy.

Measures

- Analyses the approach to creating a programme (bottom-up, top-down, combination)
- Identifies the (possible) components of a programme
- Identifies and develops the programme infrastructure
- Develops the programme control plan
- Determines the name of the programme

5.5.10.2 Manage the interfaces and synergies between components

Description: A programme is more than the summation of outcomes of the components. It adds steering towards truly realising benefits and inducing change, because a programme usually outlives its

components. A programme, additionally, should make it easier for components to be successful. It provides an environment in which they are not obstructing each other or, even better, in which synergy between components is achieved. This is achieved by careful planning, by using stages/phases/tranches, and by using communicable themes. And, of course, by sometimes allowing components to prevail over others in using resources, based on urgency, priorities or other factors.

Measures

- Identifies interfaces (technical, resource oriented, benefits related, etc.) between components
- Maps dependencies between components
- Coordinates components for maximum effect
- Sets up and manages a staged approach
- Assigns resources according to priorities

5.5.10.3 Measure, evaluate the status of components, and influence their progress

Description: The programme needs to be regularly updated on the status and progress of components. Therefore, a control plan to measure components on their KPIs is developed and implemented. Of course, there will be changes to what was planned. In that case, the professional or practitioner has many ways to accommodate the changes, such as: influencing the components that are causing the changes, influencing other components to adapt to the changes or influencing the total impact, or changing the strategy on benefits realisation to cater for the change. The professional or practitioner should not primarily 'just stick to the plan', but rather make sure successful delivery of benefits is achieved.

Measures

- Defines measurement approach and targets in a control plan
- Establishes reporting media and timing
- Evaluates progress of components
- Speeds up, slows down, re-scopes, de-scopes, starts, stops components, using the installed organisation

5.5.10.4 Provide direction to the component managers

Description: In some cases, programme management acts as principal to components. In other cases, programme management has no hierarchical power over the components. In all cases, the professional or practitioner should provide direction and guidance to managers of components regarding expectations, plan-ning, governance and mandate, benefits realisation, change management and implementation and the big picture. This helps ensure that, on the component level, component managers know how to intervene when things pop up.

Measures

- Meets regularly with component managers
- Maintains effective relationships with component managers
- Redirects component managers as needed
- Provides regular performance appraisals to component managers
- Maintains and implements an escalation policy for issues as needed

5.5.10.5 Finalize the programme

Description: Programmes are finalised or stopped for different reasons. One important reason is that the programme has delivered the projected benefits and has achieved the required changes. Another

reason might be that having the additional steering level of programme management is no longer worth the effort, and the components can be run more efficiently without the additional steering level. Another reason might be that the projected benefits are no longer relevant to the stakeholders or the changes become unwanted. When finalising, the professional or practitioner needs to make sure all components that are still ongoing are either formally closed or are transferred to a new owner (or owners) with the means to carry on (budget, resources, mandate, clear assignments, etc.). The professional or practitioner will also provide the organisations with an evaluation based on broad input. When there are still funding or resourcing contracts, these will have to be finalised (with evaluation) or transferred to ongoing components.

Measures

- Identifies aspects of the programme to be stopped, and those to be continued
- Assigns ongoing tasks to responsible parties
- Finalises and/or transfers contracts to respective parties
- Closes out programme administratively

5.5.11 Risk and Opportunity

Definition: Risk and opportunity includes the identification, assessment, response planning and implementation and control of risks and opportunities around programmes. Risk and opportunity management helps decision makers to make informed choices, prioritise actions and distinguish among alternative courses of action. Risk and opportunity management is an ongoing process through-out the life cycle of the programme.

Purpose: The purpose of this competence element is to enable the professional or practitioner to understand and effectively handle risks and opportunities, including responses and overall strategies.

Description: Risk (negative effects) and opportunity (positive effects) are always viewed in their relation to and consequences for realising the objectives of the programme. It is advisable as a first step to consider which overall strategies would best serve the handling of risks and opportunities relative to the corporate strategies and the programme in question. After that, the risk and opportunity management process is characterised by first identifying and assessing risks and opportunities, followed by the development and implementation of a response plan covering the intended and planned actions for dealing with identified risks and opportunities. The response plan should be developed and implemented in line with the chosen overall risk and opportunity strategies. The professional or practitioner is responsible for involving programme team members and keeping the team committed to the risk and opportunity management process; for making the team alert to risks and opportunities; for involving other stakeholders in the process and for involving the appropriate subject matter experts whenever necessary. Risks and opportunities in a programme shall be managed on programme level and on component level.

Knowledge

- Strategies for managing risk and opportunity
- Contingency plans, fallback plans
- Cost and duration contingency reserves
- Expected monetary value
- Qualitative risk assessment tools and techniques

- Quantitative risk assessment tools and techniques
- Risk and opportunity response strategies and plans
- Risk identification techniques and tools
- Scenario planning
- Sensitivity analysis
- Strengths, weaknesses, opportunities, threats analysis (SWOT)
- Risk exposure, appetite, aversion and tolerance
- Project or programme risks and business risks (and opportunities)
- Residual risk
- Risk and opportunity probability, impact and proximity
- Risk owner
- Risk register
- Sources of risk and opportunity

Skills

- Risk and opportunity identification techniques
- Risk and opportunity assessment techniques
- Developing risk and opportunity response plans
- Implementing, monitoring and controlling risk and opportunity response plans
- Implementing, monitoring and controlling overall strategies for risk and opportunity management
- Monte Carlo analysis
- Decision trees, e.g. Ishikawa analysis

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 4: Power and interest
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness

Key Competence Indicators

5.5.11.1 Develop and implement a risk management framework

Description: The professional or practitioner designs, develops and implements a risk management framework in order to ensure that risks and opportunities are managed consistently and systematically throughout the programme life cycle. The framework at least stipulates which risks are taken on at what level of the programme. Usually the majority of risks lie at component level, rather than at programme level. Nevertheless, there might be specific risk and opportunities cross components, which the professional or practitioner needs to manage carefully.

The risk management framework could furthermore include the definition of the methods to be used to identify, categorise, evaluate, assess and treat risks and should link to the organisation's risk management policy and international, national or industry standards. When the programme is part of a

portfolio, the risk management framework also describes who is responsible for handling which risks and opportunities, and what kind of escalation paths there are (upwards, downwards, sideways).

Measures

- Identifies a range of potential risk management models
- Develops a risk management framework consistent with organisational policy and international standards
- Ensures that the consistent application of the risk management framework is communicated

5.5.11.2 Identify risks and opportunities

Description: The professional or practitioner is responsible for the ongoing task of identifying all sources of risks and opportunities for which the professional or practitioner is directly accountable, and involving others in this process. There are various sources of risks and opportunities, both internal to the programme and external. The professional or practitioner can make use of various techniques and sources to identify risks and opportunities, e.g. from lessons learned, literature, risk and opportunity breakdown structures and interactive sessions with team members, stakeholders and subject matter experts. The identification of risks and opportunities is not only about identifying risks but also about opportunities that could, for instance, make the deliverables cheaper, or make the programme run faster, less prone to risks or simply better from a quality perspective. Because the influences coming from the environment of the programme do change over time, risk and opportunity identification should be a continuous and ongoing process.

Measures

- Names and explains various sources of risk and opportunity and the differences between them
- Identifies risks and opportunities
- Documents risks and opportunities in a register

5.5.11.3 Assess the probability and impact of risks and opportunities

Description: The professional or practitioner is responsible for the ongoing task of assessing identified risks and opportunities. Risk and opportunity assessment can be done qualitatively and quantitatively. The best approach is to do both, and to regularly re-assess both risks and opportunities. The qualitative assessment could cover a more in-depth analysis of the sources behind identified risks and/or opportunities; it also deals with conditions and impacts. An example is scenario planning. The quantitative assessment deals with probabilities and estimates and it also translates probabilistic impacts into quantifiable measures. Quantitative assessment provides numerical values measuring probability and impact expected from risks and opportunities. Monte Carlo analysis and decision trees are examples of powerful quantitative risk assessment techniques.

Measures

- Engages in qualitative risk and opportunity assessment
- Engages in quantitative risk and opportunity assessment
- Makes and interprets a risk or opportunity decision tree, with outcomes

5.5.11.4 Select strategies and implement response plans to address risks and opportunities

Description: The professional or practitioner is responsible for the ongoing process of selecting and implementing optimal responses to any identified risk or opportunity. This process entails assessing

various possible types of responses and finally selecting the ones that are optimal or most appropriate. For each risk the response options may include:

- Avoiding the risk by deciding not to start or continue with the activity that gives rise to the risk
- Accepting or increasing the risk in order to pursue an opportunity
- Removing the risk source
- Changing the likelihood
- Changing the consequences
- Sharing the risk with another party or parties (including contracts and risk financing)
- Accepting the risk by informed decision
- Preparing and implementing a contingency plan.
- Similar response options apply to opportunities:
- Eliminating the uncertainty by making the opportunity definitely happen (exploit)
- Allocating ownership to a third party who is best able to handle it (share)
- Increasing probability and/or impact, by identifying and maximising key opportunity drivers (enhance)
- Taking no special measures to address the opportunity (ignore).

Those risks that are not acceptable and those opportunities that are to be pursued require an appropriate response plan. Often, even after implementing risk responses, there is a residual risk that still has to be managed.

Measures

- Explains various means and methods for implementing a chosen overall strategy for the risk and opportunity management process
- Evaluates responses to risks and opportunities, including their strengths and weaknesses
- Evaluates alternative means and methods for implementing a risk and opportunity response plan
- Influences the plan for resources and competences required to implement responses
- Implements and communicates a risk and opportunity response plan

5.5.11.5 Evaluate and monitor risks, opportunities and implemented responses

Description: After the appropriate risk and opportunity responses have been implemented (this may include appointing risk owners for certain or all risks) the risks and opportunities will need to be monitored. The risks and opportunities and the appropriateness of the selected responses should be re-assessed periodically. Risk and opportunity probabilities and/or impacts may change, new information may become available, new risks and opportunities may arise, and the responses may not be appropriate any more. The overall strategies may also need to be evaluated. In fact, risk and opportunity management is not just a periodic process, but should take place continuously, as all actions may carry a risk aspect.

Measures

- Monitors and controls the implementation and execution of a risk and opportunity response plan
- Communicates the risks and opportunities and the appropriateness of the selected responses

5.5.12 Stakeholders

Definition: The stakeholder's competence element includes identifying, analysing, engaging, and managing the attitudes and expectations of all relevant stakeholders. All professional or practitioner, groups or organisations participating in, effecting, being effected by, or interested in the execution or the result of the programme should be seen as stakeholders. This may include sponsors, clients and users, suppliers/ subcontractors, alliances and partners and other projects, programmes or portfolios. Stakeholder engagement includes constantly revising, monitoring and acting upon their interests and influence on the programme. Stakeholder engagement may also involve building strategic alliances that create organisational capacities and capabilities where both risks and rewards are shared.

Purpose: The purpose of this competence element is to enable the professional or practitioner to manage stakeholder interests, influence and expectations, and to engage stakeholders and effectively manage their expectations.

Description: Stakeholder engagement is an ongoing process, throughout the life cycle of the programme. Stakeholders are the partners for and through whom the programme will achieve success. Stakeholders' expectations, needs and ideas create the need and form the basis for the programme; stakeholders' money and resources are necessary inputs, and stakeholders use the outcomes.

Stakeholders come in various forms and groupings (higher management, users, suppliers, partners, pressure and special interest groups, etc.) and have varying attitudes, interests and influence. Therefore, each stakeholder or stakeholder group has different information needs. An engagement strategy (often laid down in a communication plan) is therefore essential.

This strategy might be executed by focusing on both formal and informal communication channels as well as more involving forms, such as alliances, collaboration or networks. Alliances are often documented and formalised through a contract document such as an alliance contract, or through the establishment of a joint venture entity. Collaborators may often be employed in separate parts within an organisation, or may comprise one or more different organisations. Networks have no clear power structure, and hence are more difficult to engage with. During the execution of the engagement strategy, the stakeholder environment should be constantly monitored for changes to ensure continuous alignment and improvement.

Knowledge

- Stakeholder interests
- Stakeholder influence
- Engagement strategies
- Communication plan
- Collaborative agreements and alliances
- External environment scanning relating to social, political, economic and technological developments

Skills

- Stakeholder analysis
- Analysis of contextual pressures
- Demonstrating strategic communication skills
- Expectations management

- Formal and informal communication
- Presentation
- Networking skills to identify potentially useful and opposing stakeholders
- Contextual awareness
- Undertaking conflict resolution

Related competence elements

- All other practice CEs
- All perspective CEs
- People 3: Personal communication
- People 4: Relations and engagement
- People 5: Leadership
- People 8: Resourcefulness
- Key competence indicators

5.5.12.1 Identify stakeholders and analyse their interests and influence

Description: The professional or practitioner identifies all professional or practitioner, groups and organisations relevant to the programme. The professional or practitioner first has to analyse the attitudes of each stakeholder (group) and find out the reasons for these attitudes (interests of the stakeholder in the programme's outcome or process). Secondly, the professional or practitioner needs to know the potential beneficial or harmful effect (influence) this stakeholder can have on the programme. Their interests can come from various sources (for instance, because they are competing for scarce resources or budget). They can be great or small, and either positive or negative. In the latter case they are, for whatever reason, opposed to the programme.

A stakeholder's influence can also be greater or smaller, and may be concentrated in one or more areas (such as being able to supply or withhold funding, resources, office space and equipment, priority, access, etc.). The professional or practitioner performs a stakeholder analysis at the beginning of each programme, identifying stakeholders, their interests and influence. During the programme, the professional or practitioner maintains an active analysis of the context of the programme, to identify new stakeholders, changed interests or changed influences. These changes in the stakeholder environment can be the result of changes in the programme itself. More often, they are the result of changes in the context of the programme (organisational changes, personal changes in management, change in the economy, new regulations, etc.). The professional or practitioner analyses the relevance of these changes for the programme.

What should be taken into account when performing the analysis is that the stakeholders form networks? These networks have their own behaviour, and there are relations between the networks. A stakeholder is not just part of one network, but will be in several, 'themed' networks, where in every network, based on the theme, they will have a different role and a different stake. The individual needs to be aware of this and be able to wield influence in this network of networks.

Measures

- Identifies the major stakeholder categories
- Identifies and names various stakeholders' interests
- Identifies and evaluates stakeholders' influence
- Identifies relevant changes in or around the programme

- Analyses the consequences of changes for the programme
- Takes actions in order to manage stakeholders
- Draws networks based on themes or interest areas
- Is able to distinguish the positions of different stakeholders in different networks

5.5.12.2 Engage with stakeholders to gain their cooperation and commitment

Description: For all programmes, the early and deep involvement of stakeholders is a prerequisite for success. The professional or practitioner therefore engages the stakeholders actively, in order to achieve success. The professional or practitioner is aware of the influence stakeholders will try to bring to bear on the programme and will try to use it to the benefit of the programme. Furthermore, the professional or practitioner will strive towards creating a sustainable co-operative network, to ensure the stability of the programme throughout its life cycle. Especially when the programme sets out to achieve a transformation in a complex network, this is of utmost importance. Because the stakeholder force field is changing, the strategy and its execution is regularly revisited and adapted when needed. Potential alliances are developed and potential collaborators are identified. The benefits and outcomes of the potential partnership or alliance are identified for all parties. A relationship is established and developed with potential collaborators.

Measures

- Recognises stakeholders' interests
- Knows what type of commitment is needed from which stakeholder (group)
- Formulates and adapts a stakeholder strategy
- Influences the stakeholder community by well-chosen interventions to try to secure the commitment needed
- Is aware of the influence stakeholders will use on the programme, and is able to use it as much as possible to the benefit of the programme
- Tries to engage stakeholders in such a way that a sustainable, co-operative network emerges
- Identifies and evaluates opportunities for alliances and partnerships
- Identifies and evaluates potential collaborators

5.5.12.3 Develop and maintain a stakeholder strategy and communication plan

Description: The professional or practitioner will devise a stakeholder strategy how to engage, keep informed, involve and commit the various stakeholders to the programme, its strategy and its outcomes. This can be done by approaching each stakeholder (or group of stakeholders) differently, depending on their interest and influence. To make it manageable, stakeholders with similar interests and influence can be grouped together. The stakeholder strategy is often laid down in a communication plan, which describes for each stakeholder (or group) the why, what, when (and how often), how (through which communication channel), who (should communicate), and the level of detail of the communication. The 'what' is essential; the message should be tuned to the specific stakeholders' expectations and should be aimed at committing each stakeholder to supporting (or at least not thwarting) the programme.

The communication plan is central to expectation management. This can be summed up as the efforts of the professional or practitioner to influence the expectations of the various stakeholders so that these come to expect and appreciate what (and when) the programme can and will deliver (and not get disappointed because of wrongly held expectations about the progress and outcomes).

Of course every communication is at least two sided, so attention and care should be given to whether and how the sent communication was received, and follow-up should be given to feedback and other incoming communication. As circumstances change, the communication plan should be regularly revised and updated. Potential alliances are developed and potential collaborators are identified. The benefits and outcomes of the potential partnership or alliance are identified for all parties. A relationship is established and developed with potential collaborators.

Measures

- Describes the importance of a stakeholder strategy
- Prepares a communication plan
- Adjusts the communication plan and/or strategy based on changed circumstances
- Explains reasons for changing a communication plan
- Identifies and evaluates opportunities for alliances and partnerships

5.5.12.4 Engage with the executive, sponsors and higher management to gain commitment and to manage interests and expectations

Description: For all programmes, the most important stakeholders include executives and sponsors. Often the executive(s) is/are the supplier(s) of funds (budget) and/or can decide on resources, priority of requirements, definition of scope, etc. With these primary stakeholders, expectation management is of the utmost importance. The commitment and confidence of the executive(s), higher management and/or sponsor(s) is of great benefit both to the success of the programme and that of management. A good working relation and open communication needs to be established.

Measures

- Engages management and/or sponsor(s)
- Manages expectations of the project's executive, higher management and/or sponsor(s)
- Employs the executive and/or sponsor(s) to act as ambassadors

5.5.12.5 Organise and maintain networks and alliances

Description: As part of the stakeholder strategy, networks and alliances can be implemented. These can be both formal and informal. When they are formal, agreements are negotiated and documented and a plan for ongoing cooperation is developed and implemented. As part of this plan, performance measures are identified and an exit strategy is developed. All networks and alliances should be evaluated frequently and improved when necessary. Alliances can be ended by design, or because the formal relationship is no longer beneficial to the constituent organisations or stakeholders. Often, the organisation is quite likely to want to make alliances with the same partners for new ventures in the future, so the ending of a formal relationship needs to be handled carefully. Networks are more informal and tend to be sustained beyond the life cycle of the programme.

Measures

- Negotiates and documents the alliance agreement
- Develops and implements a plan for cooperation
- Develops and evaluates measures for success
- Maintains key partnership agreements
- Closes all formal contractual agreements

5.5.13 Change and Transformation

Definition: Newly developed capabilities only deliver benefits when they are put to use, and when they are supported by the organisations and people receiving them. Change (improvement of a current situation, keeping the past in mind) and transformation (the emerging development of new situations, based on a vision of the future) provides the process, tools and techniques that can be utilised to help professional or practitioner and organisations make successful personal and organisational transitions resulting in the adoption and realisation of change.

Purpose: The purpose of this competence element is to enable the professional or practitioner to help societies, organisations and professional or practitioner to change or transform, thereby achieving projected benefits and goals.

Description: Programmes are organised in order to achieve improvements. In many cases, these improvements are not only achieved by delivering an outcome, but also require small or large changes in behaviour.

People usually do not object to change – they object to being changed. Successfully addressing their objection can be done by, for example, building support, addressing resistance and developing the required knowledge and ability to implement the change. More strategic change will also encompass influencing a leading coalition, and other psychological and psycho-social interventions. When change management is done well, people feel engaged in the change process and work collectively towards a common objective, realising benefits and delivering results.

Transformation occurs when, based on a vision, behaviour is changed because there is a will to do things differently. Transformation is vision led, and depends largely on the strength of the vision and the willingness of the people who share the vision to really put their energy into making it happen.

The level of change and transformation management required by a programme will largely depend on the amount of disruption created in professional or practitioner and groups' day-to-day lives, plus attributes such as culture, value system and history with past changes. Change and transformation do not primarily happen 'by design', and are not usually a linear process. The professional or practitioner needs to regularly monitor and evaluate the effectiveness of the changes and adapt the change or transformation strategy. The professional or practitioner also needs to take into account the change capacity and capabilities of people, groups or organisations in order to help them successfully adapt or transform.

Programmes usually deliver new capabilities. However, it is only when these capabilities are put to use that value is added and benefits can be achieved. Organisational or business changes often affect or alter processes, systems, organisational structure and job roles, but most of all they influence people's behaviour. Changes can be quite small, or they can require a complete transformation. Sometimes they can even be disruptive, which means special skills are needed to bring them about. In many cases, a programme will induce and organise change, but will have ended before the benefits resulting from it are realised.

Knowledge

- Learning styles for professional or practitioner , groups and organisations
- Organisational change management theories
- Impact of change on professional or practitioner
- Personal change management techniques

- Group dynamics
- Impact analysis
- Actor analysis
- Motivation theory
- Theory of Change

Skills

- Assessing an professional or practitioner 's, group's or organisation's change capacity and capability
- Interventions on behaviour of professional or practitioner and groups
- Dealing with resistance to change

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness

Key Competence Indicators

5.5.13.1 Assess the adaptability to change of the organisation(s)

Description: Organisations and people have limited capacity, capability and willingness to change. This is influenced, among other factors, by the success of earlier changes, stress and pressure, the understood need for this particular change, culture and atmosphere and seeing good or facing bad perspectives. There might also be resistance to the proposed change, either openly or hidden, which negatively influences the adaptability to change. In many cases, opposition does not come from those people who are directly affected by the change, but from those who manage them. The adaptability to change is not fixed but will be influenced by factors both inside and outside the programme.

Measures

- Analyses the adaptability to the required change, based on previous successful and unsuccessful changes in the organisation
- Assesses possible areas (topics, people) for resistance to the change
- Recognises and influences circumstances which can improve the adaptability
- Takes action when the required or expected change or transformation is not within the capabilities of the organisation(s).

5.5.13.2 Identify change requirements and transformation opportunities

Description: For a business perspective oriented programme, organisational requirements and the programme's context are analysed to determine which transformation or business change needs to occur when. For a more societal perspective-oriented programme, the analysis needs to determine which societal groups can and should be influenced by the programme. This can be done by interviewing, gathering knowledge, analysis of data, or using workshops. Sometimes, opportunities arise

because of market conditions changing, the programme's environment changing, or other organisational or societal changes. Change requirements and opportunities will themselves change regularly, so they need to be regularly reviewed and adapted.

Measures

- Identifies groups and professional or practitioner affected by change
- Maps group interests
- Identifies change requirements and opportunities regularly
- Adapts to changing interests and situations

5.5.13.3 Develop change or transformation strategy

Description: A change strategy is developed by the professional or practitioner (or emerges and therefore is put together by the professional or practitioner) to address the envisioned changes or transformations. It will be based upon the intensity and the impact of the change and takes into account the ability to change or the willingness to transform of the organisation, society or people. The timing of changes to align with organisational (or societal) dynamics and opportunities also needs to be considered. The plan is developed through consultation and is regularly updated. Learning, monitoring and assessing what works and what doesn't, in which situations, is part of the strategy. Changes and transformation do not happen overnight, but usually take a while before value is added. When changes or transformations are more consequential, a stepwise approach is developed so that early successes can be valued and used as incentives for further change. Change plans can sometimes be planned and structured, but can also be focused on group behaviours, on power, on learning, on emergence. There is no one right way to do change, but the professional or practitioner needs to anticipate the change.

Measures

- Identifies societal, organisational and personal change or transformation strategies, recognising for example, innovators, early adopters, the majority and laggards.
- Collaborates with others to validate strategies
- Documents strategies into a comprehensive change plan
- Develops a step-by-step approach if this is required
- Regularly adapts the change or transformation plan to incorporate lessons learned and changes in the component's environment, or in society
- Regularly adapts the strategy because the change has succeeded and benefits have been achieved

5.5.13.4 Implement change or transformation management strategy

Description: Based on the change strategy, a set of possible interventions is planned. These might include workshops, training, information sessions, pilots, serious games and visioning, but there will certainly also be interventions to be made regarding power and influence and handling resistance. Once a change is induced, measures should be taken to sustain the change and to help organisations and professional or practitioner to avoid 'falling back' to old behaviour. For societal change programmes, mass media and social media interventions should be considered. The interventions are carried out and evaluated for success. When necessary, alternatives are developed and carried out.

Measures

- Designs a coherent intervention plan
- Implements selected interventions

- Leads or organises workshops and training
- Addresses resistance to change
- Organises and implements mass media interventions
- Uses reinforcement techniques to ensure new behaviour is sustainable

5.5.14 Select and Balance

Definition: Select and balance focuses on the assessment, selection and performance monitoring of components within the programme scope, and on the balancing of the programme, that is, making sure that the programme as a whole implements the required change and creates optimal benefits.

Purpose: The purpose of this competence element is to enable the professional or practitioner to prioritise, select and re-assess all components within the programme scope, based on clear criteria. Maintaining the balance, consistency and performance is crucial in order to achieve the outputs and outcomes.

Description: Selection of possible components is an ongoing and iterative process, in which a programme is populated with both new and existing components and those that have been completed are removed from the programme. Some components may be cancelled or put on hold, and, while they may remain within the programme and are still visible on the roadmap, they are not 'active'. Proposals or business cases for possible new components may be put forward for potential selection. These proposals are reviewed to ensure that they align with the projected benefits of the programme. Constraints such as time, cost or resource availability are also considered. The selection process itself may also result in components being put on hold, cancelled outright or being given a lower priority.

Balancing a programme is the process of making sure the programme is actually implementing the change and delivering the projected benefits and achieving the projected changes in the right way, and in line with the right priorities. It is the process of monitoring the progress of components and the impact they have on the projected benefits. Based on this monitoring, future performance is predicted. If and when necessary, changes to the programme are proposed. Possible changes could be to slow down or speed up components, to relocate strategic resources from one component to another, or even (sometimes temporarily) to stop components or replace them with others that contribute more. This process is regular, usually taking place monthly.

While this is a planned and usually stable process, sudden changes may arise, usually because of a sudden change in priorities or in the environment of the programme. In these cases, the entire programme needs to be re-assessed and acknowledged.

Knowledge

- Supply and demand concepts
- Analysis methods and techniques, including:
 - Cost benefit analysis
 - Quantitative analysis
 - Multicriteria analysis
 - Scenario planning
 - Probability analysis
 - Graphical analysis methods

- Presenting multi-dimensional and complex information in creative ways, including:
 - Bubble charts
 - Three dimensional graphs
 - Balanced scorecard matrix
 - Pairwise comparison
 - Business cases and feasibility studies
 - Financial information analysis and trend analysis
 - Quality and continuous improvement
 - Process improvement
 - Metrics and key performance indicators as management tools

Skills

- Progress control
- Change management
- Reporting
- Negotiation
- Start-up workshop
- Kick-off meeting
- Dependency mapping
- Capacity analysis for:
 - Human resources
 - Financials
 - Assets
- Risk and opportunity analysis techniques, for example:
- SWOT
- PESTLE
- Core capabilities analysis
- Scenario planning
- Decision making models and strategies
- Ability to make 'trade-offs' where no perfect solution exists
- Ability to use multiple criteria to make management decisions
- Creating, using and applying appropriate key performance indicators
- Identifying and documenting project and programme benefits
- Determining project performance based on high-level information

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

5.5.14.1 Analyse the characteristics of components

Description: All possible components are analysed to determine their feasibility, plus their resource, time and cost profile. The analysis also looks for any interdependencies, and determines how each component is aligned with strategic goals and objectives. The desirability of possible components is assessed based on their risk, projected benefits and business impacts assessment. Where the benefits and business impacts are not clear or definable, a feasibility study may be commissioned to determine investment merit. The appraisal and prioritisation of the components is focused on ensuring that they are aligned to the needs and priorities of the programme. Components are compared and prioritised.

Measures

- Captures information about component's interfaces, emergent risks, resource and cost requirements and business benefits and their timings
- Maps dependencies between components
- Components are prioritised based on the comparative analysis

5.5.14.2 Prioritise components based on the programme's priorities

Description: The programme determines the criteria it will use to prioritise components. These criteria may include risk, size and duration, type or strategic importance. The priorities may be reviewed and changed over time due to the programme's needs, market changes or changes in strategic goals.

Measures

- Documents and reviews methods and criteria to reflect changing priorities for prioritising components ensures agreement on prioritisation criteria for the project portfolio with stakeholders
- Supports review and prioritisation process
- Supports the resourcing, funding, and selection processes
- Prioritises components based on their alignment and contribution to the programme's objectives

5.5.14.3 Analyse and predict the future performance of the programme

Description: In managing the programme, the professional or practitioner is required to analyse and predict its future performance. As part of managing the programme's performance, the value and contribution to strategic priorities must be regularly assessed to determine whether the components are delivering as intended, and to ensure that the overall programme remains balanced and aligned. The professional or practitioner may also identify lessons learned and feed any recommendations into the component identification, prioritisation or selection processes.

Measures

- Reviews and improves component identification and approval processes
- Assesses programme value and contribution to priorities through the monitoring and review of key performance indicator measures
- Identifies and assigns lessons learned into the component selection, prioritisation and balancing processes

5.5.14.4 Prepare and facilitate programme decisions

Description: The professional or practitioner identifies and documents the methods to be used to select components, taking into account the programme's desired mix. This mix may be based on risk, technical

domain and/ or some other criterion. Some components may not be approved or may be rejected. Existing components may be cancelled or put on hold.

Recommendations for components to be included in the programme are passed to the approving body for approval, according to the programme's organisation and governance. Where components are approved, the funding and resources are allocated. The decisions of the approving body are communicated to stakeholders to ensure awareness and clarity.

6.0 Professional or Practitioners Working in Portfolio Management

The IPMP competence baseline is a comprehensive inventory of competences an professional or practitioner needs to have or to develop to successfully manage portfolios. The generic model is applicable in all sectors and industries. However, it does not recommend or include specific methodologies, methods or tools. Appropriate methods and tools may be defined by the organisation,

and the professional or practitioner should choose from a wide range of available methodologies, methods and tools for a particular situation.

Of course, the weight of the various competences needed to successfully manage portfolios differs between types of portfolios (e.g. IT, production, research and development) and industries (e.g. construction, business services and government). Nevertheless, in every portfolio, all competences are relevant.

6.1 Managing Project Portfolios

A project portfolio is a set of projects and/or programmes, which are not necessarily related, brought together to provide optimum use of the organisation's resources and to achieve the organisation's strategic goals while minimising portfolio risk.

The portfolio may be implemented in a part of the organisation, such as a division, or may be enterprise-wide, or portfolios may be nested, in that there may be both a divisional and enterprise-wide portfolio. Regardless of the scale and scope of the portfolio and the location in which it occurs within the organisation, the use of project portfolios allows organisations to make the most of their resources allowing the organisation to achieve its strategic purpose

Project portfolio management is a dynamic decision-making process in which new projects and programmes are evaluated, selected, prioritised and balanced in the context of the existing projects and programmes within the portfolio. The goal of portfolio management is to align projects with strategy, to maintain a balance of various project types within the portfolio and to ensure that the portfolio fits with resource capability so that the organisation can sustain the maximum value from project investments.

Project portfolio management is an organisational approach to the holistic management of a portfolio of projects. Project decisions, particularly resource allocation decisions, are most likely to increase overall portfolio value when made from a portfolio-level perspective rather than from the perspective of a single project. A range of processes, methods and tools are used in portfolio management approaches to prioritisation, resource allocation and ongoing resource reallocation among a portfolio of projects. High performing organisations employ high-level decision-making teams to align projects with strategy, achieve a balance in the project portfolio and maximise the value of the portfolio. To maximise success project portfolio management must be tailored to context.

6.2 Competences Overview

The IPMP Competence is applicable for the three management domains project management, programme management and portfolio management. Based on the generic model every professional or practitioner has to have a specific set of competences to manage programmes successfully. The professional or practitioner has to have perspective competences that address the contexts of programmes (i.e. the components), people competences that address personal and social topics and programme competences that address the specific practice competences for managing programmes

6.3 Perspective

The competence area 'perspective' deals with the context of a portfolio. It defines five competences:

- Strategy
- Governance, structure and processes
- Compliance, standards and regulations

- Power and interests
- Culture and values

6.3.1 Strategy

Definition: The strategy competence describes how strategies are understood and transformed into manageable elements using projects. This competence is therefore defining a performance management system in which projects are seen and managed in light of their alignment with the strategy and the vision, and ensuring it is highly correlated with the mission and the sustainability of the organisation.

Purpose: The purpose of this competence element is to understand the strategy, and its strategic processes, and thus enable a certain management perspective (project, programme or portfolio) to manage their portfolio within the contextual aspects.

Description: This competence describes the formal justification of the portfolio goals as well as the realisation of benefits for the organisation's long-term goals. This encompasses the discipline of strategic performance management in which an organisation breaks up its strategic goals into manageable elements in order to:

- Achieve beneficial changes in the organisational culture, business systems and processes
- Establish and pursue agreed strategic targets
- Allocate and rank resources
- Inform management of the need to change strategic objectives
- Stimulate continuous improvement.

Strategic plans encompass long-term visions and mid- or short-term strategies and should be aligned with the mission, quality policy and corporate values of organisations. The strategy competence also includes the process of understanding the organisational environment, developing the desired state of benefits and making the right selection of projects and/or programmes within a portfolio. Strategy alignment should therefore convey the organisation's vision and strategy into project goals or programme benefits.

Throughout the strategic alignment processes, professional or practitioners may apply different models for disseminating and managing the strategic goals, e.g. the balanced scorecard, performance matrix, environmental analyses, etc. Thus the professional or practitioner sets a performance management system, usually run by critical performance variables, i.e. critical success factors (CSFs) and key performance indicators (KPIs). Hence, each portfolio is controlled through a set of CSFs and KPIs to assure the sustainability of an organisation.

Knowledge

- Benefits realisation management
- Critical success factors
- Key performance indicators
- Organisational mission
- Organisational vision
- Difference between tactic and strategy
- Diagnostic and interactive control management systems
- Strategic performance management

- Benchmarking
- Management control systems
- Strategic schools of thought

Skills

- Analysis and synthesis
- Entrepreneurship
- Reflection of the organisation's goals
- Strategic thinking
- Sustainable thinking
- Contextual awareness
- Result orientation

Related competence elements

- All other perspective CEs
- People 5: Leadership
- People 9: Negotiation
- People 10: Results orientation
- Practice 1: Design
- Practice 2: Requirements and objectives
- Practice 11: Risk and opportunity
- Practice 12: Stakeholders

Key Competence Indicators

6.3.1.1 Align with organisational mission and vision

Description: The professional or practitioner knows and can translate the organisation's mission, vision and strategy into the key priorities and selection criteria to be used by the portfolio. The professional or practitioner ensures that these criteria align with the organisation's mission, quality policy and values. If the relationship between the portfolio's benefits and organisational purpose is vague, periodic checks are undertaken to ensure the benefits have been derived from formal strategic documents. Alignment is verified and measured through the use of diagnostic management control systems and formal tools, such as critical success factors, success criteria or key performance indicators.

Measures

- Reflects the mission and vision of the organisation
- Aligns the portfolio with the mission, vision and strategy by using a specific management system (top-down approach and pre-set goals)
- Controls whether the objectives and planned benefits of the portfolio and its component projects and programmes are consistent with the mission, vision and strategy
- Develops and implements measures of strategic alignment
- Determines whether the portfolio is delivering benefits to the organisation

6.3.1.2 Identify and exploit opportunities to influence organisational strategy

Description: The professional or practitioner knows the organisation's strategy development process, which is often developed in a top-down fashion by the executive board or management board of an organisation. Intended strategies are often not realised as the environment changes and, while pursuing a certain path, new opportunities and risks are emerging. Therefore, the professional or practitioner not

only needs to know the pre-set strategic goals, but also uses a range of tools and methods to question these goals and influence the board to make the necessary improvements or changes. These influences are managed through interactive control systems and by applying a bottom-up approach.

Measures

- Knows the strategy development process
- Identifies new risks and opportunities which could alter the strategy
- Engages co-workers in questioning the organisational strategy by implementing interactive control management systems
- Identifies strategic improvements and communicates them to the organisation executive
- Influences the strategy making process by suggesting changes to strategy

6.3.1.3 Develop and ensure the ongoing validity of the business/ organisational justification

Description: The professional or practitioner is able to provide a formal document which states the ongoing justification for business or organisational benefits delivered by the portfolio. This justification should demonstrate the relationship between components in the portfolio and should be the basis for the success criteria for the portfolio. The professional or practitioner can create or facilitate, interpret, update and sometimes realise (parts of) the business justification, which should not be a static document, but should be periodically updated throughout the realisation and re-assessed for validity. Furthermore, the professional or practitioner constantly monitors or controls the portfolio configuration to ensure components of the portfolio remain aligned to organisational strategy.

Measures

- Develops the business and/or organisational justification for the portfolio
- Identifies objectives of the portfolio in order to generate the planned benefits
- Sells the business and/or organisation justification to the sponsors and/or owners of the portfolio
- Re-assesses and validates the justification to ensure ongoing alignment with the organisation's strategy
- Defines and manages the portfolio configuration
- Applies benefits realisation management to check whether the portfolio configuration is generating the desired results
- Scans to determine whether there is a need to terminate the portfolio because of redundancy or obsolete strategic importance and change the configuration

6.3.1.4 Determine, assess and review critical success factors

Description: The professional or practitioner is able to discern, define, interpret and prioritise critical success factors (CSFs) which directly relate to the portfolio. CSFs are directly connected with the organisational objectives and business objectives. Therefore by achieving the portfolio's benefits, the organisation fulfils strategic goals, tactical and operational objectives, and ultimately organisational success. The professional or practitioner can grasp both the formal and informal context of the factors and identifies their influence on the final outcome of each component. The relative importance of the success factors may change, due to both contextual factors and the dynamics of the portfolio itself. Personnel changes, both within and between portfolio components, may also influence these factors. Therefore the professional or practitioner periodically checks and assesses the actuality and relative importance of the CSFs and, when necessary, make changes in order to sustain success, even if this means that a component is recommended for cancellation.

Measures

- Derives and/or develops a set of critical success factors (CSFs) for the portfolio based on the organisation's strategic objectives
- Uses formal CSFs for strategic alignment
- Acknowledges the informal context of CSFs
- Involves peers to question the organisation strategy while developing CSFs
- Uses the CSFs for determining the strategic alignment of a component within the portfolio
- Refers to portfolio CSFs when engaging with stakeholders and managing their expectations
- Uses the CSFs for developing incentives and rewards in order to create a motivated culture
- Re-assesses CSF realisation within the higher strategic context

6.3.1.5 Determine, assess and review key performance indicators

Description: The professional or practitioner is able to manage related key performance indicators (KPIs) for each CSF. KPIs are the core of many strategic performance management systems and are used for measuring or indicating the fulfilment of the CSF and achieving success. Usually KPIs are either pre-set by the organisation or developed by the professional or practitioner using best practices or models, such as the balanced scorecard. KPIs can be used as leading measures (preceding a strategic event or milestone), lagging measures (following a strategic event or milestone) or realtime dashboards. KPIs are identified for the portfolio and component projects and programmes. The KPIs of component projects and programmes may change, due to both contextual factors and the dynamics of the portfolio itself. Personnel changes, both within and between component projects and programmes, may also influence KPIs. Therefore the professional or practitioner should periodically check and assess the relevance and relative importance of the KPIs and, when necessary, make the required changes in order to sustain success.

KPIs should also involve soft aspects, such as motivation, communication within the team, personal development of team members, etc. which reflects the strategic objective, i.e. the benefit one wants to achieve. Moreover, KPIs should cover a broad range of other aspects, varying from adhering to certain governance and support processes (for instance on decision making, reporting, acquiring resources and administrative processes), meeting standards and regulations, to complying with cultural norms and values, both of the organisation and of the wider society.

Measures

- Derives and/or develops a set of KPIs for each critical success factor
- Decides on the use of leading, lagging and real time measure when developing KPIs
- Uses KPIs for managing strategic performance
- Uses KPIs to influence stakeholders
- Uses KPIs for developing personal development plans
- Uses KPIs for developing an incentive/reward system
- Re-assesses portfolio configuration by employing KPIs and performing benefits realisation management

6.3.2 Governance, Structures and Processes

Definition: The governance, structures and processes competence element defines the understanding of and the alignment with established structures, systems and processes of the organisation which provide support for portfolios, and influence the way they are organised, implemented and managed. The governance, structures and processes of an organisation may comprise both temporary systems

(projects and programmes) and permanent systems such as project portfolio management systems, financial/administrative systems, supporting systems, reporting systems, decision making and auditing systems. Sometimes these systems can even form the strategic reason for a project or programme, for example, when a project or programme is initiated for the purpose of improving business processes or establishing new systems.

Purpose: The purpose of this competence element is to enable the professional or practitioner to effectively participate in, and to manage the impact of, governance, structures and processes on portfolios.

Description: Structures and processes form essential parts of the governance system of any organisation. To align with structures and processes means the ability to utilise value systems, roles and responsibilities, processes and policies established in an organisation to ensure that portfolios achieve their objectives and strategic corporate goals. To manage portfolios in line with the established organisational structures and processes requires a basic understanding of the various types of initiatives and how a project-oriented organisation works, as well as the benefits associated with management by projects. It includes the alignment with permanent processes related to the management of projects, programmes and portfolios. Most project-oriented organisations have various types of supporting structures and processes for projects, programmes and portfolios.

Examples of supporting structures and processes are line functions such as human resources (HR), finance and control, and information technology (IT). Mature organisations may also provide more dedicated support to project and programme management through a project management office (PMO). To be competent in structures and processes also means the ability to review and apply feedback and lessons learnt from other portfolios. A key challenge is to balance the use of compulsory and optional structures and processes for optimal effect and benefit to the portfolio.

Knowledge

- Basic principles and characteristics of management by projects
- Basics of programme management
- Basics of organisational design and development
- Formal organisation and informal interrelations of project, programme and portfolio management (staff, line, etc.) in the organisation
- Governance
- Organisation and business theories

Skills

- Leadership
- Reporting, monitoring and control
- Communication planning and executing
- Design thinking
- Contextual awareness
- Values recognition
- Organisational alignment and communication

Related competence elements

- All other perspective CEs

- Practice 1: Portfolio design
- Practice 5: Organisation and information
- Practice 7: Finance
- Practice 8: Resources
- Practice 9: Procurement
- Practice 10: Plan and control
- Practice 13: Change and transformation

Key Competence Indicators

6.3.2.1 Know the principles of portfolio management and the way they are implemented

Description: The professional or practitioner knows the concepts of portfolio management, can explain the difference between different types of organisation settings, e.g. functional, matrix and project-oriented organisation, and knows how to optimally align portfolios with existing organisational structures, such as boards and committees, in order to achieve success. The professional or practitioner is knowledgeable about various portfolio management concepts and the way portfolio management is implemented within a permanent organisation. Furthermore, the professional or practitioner knows strategic performance management concepts and how they are implemented through portfolios and any component projects and programmes.

Therefore the professional or practitioner can define the portfolio criteria, required inputs and outputs and how the various projects and programmes impact on the portfolio output indicators (KPIs). The professional or practitioner handles the interfaces and dependencies between the different projects and programmes and knows how to take them into consideration when balancing the portfolio. Therefore the professional or practitioner can discover different constraints within the portfolio and can take these constraints into account to harmonise resource utilisation on programmes and projects within the portfolio. The professional or practitioner also manages the vertical (for example, with the portfolio manager or board committee) and horizontal (for example, with other projects or portfolios) lines of communication as part of the overall coordination process within a portfolio.

Measures

- Defines a portfolio and knows various principles of portfolio management
- Defines characteristics of a portfolio selection and prioritisation criteria, critical success factors (CSFs) and Key Performance Indicators (KPI)
- Manages interfaces of different projects and programmes within a portfolio in order to balance the portfolio
- Manages and maintains clear communication within a portfolio
- Manages the line of communication between the portfolio and organisation boards and committees

6.3.2.2 Know and apply the principles of project and programme management and the way they are implemented

Description: The professional or practitioner knows the concepts of projects, programme management and management by projects. The professional or practitioner can explain the characteristics and principles on which management by projects is based and can set up a project-oriented environment, as well as being able to set up a portfolio which supports it. Furthermore, the professional or practitioner

is aware of the concept and measurement of maturity in project-oriented organisations covering organisational competences, project, programme and portfolio competences and professional or practitioner competences.

Measures

- Explains the key concepts of project management
- Explains the key concepts of programme management
- Explains and practises the concept of management by projects
- Perceives and establishes management by projects and programmes as a vital part of the portfolio organisation
- Explains and identifies the current maturity level of an organisation with regard to managing portfolios

6.3.2.3 Align the portfolio with the organisation's reporting and decision-making structures and quality management processes

Description: The success of a portfolio is very much dependent on the right decisions made at the right level of organisation, and at the right time. Every decision should be prepared, presented, accepted, recorded, communicated, and finally implemented. Formal and informal routines and special rules for decision making beyond the professional or practitioners' competence and responsibility exist in every organisation. Therefore, the professional or practitioner requires knowledge of the decision making structure and processes, and the ability to structure and manage the portfolio and the component projects and programmes accordingly. Periodic reporting of the actual status is essential for trust by its stakeholders, and to assure traceability of the portfolio. Different stakeholders have different reporting needs (information requirements, method of delivery, reporting frequency), which the professional or practitioner must take into account. The parent organisation will have different forms of quality assurance which relate to projects (system assurance, project assurance, finance assurance, technical assurance, security assurance, etc.). It is important for the professional or practitioner to take these into account in devising a quality assurance plan within a respective portfolio.

Measures

- Identifies the organisation's routine and special rules for decision making in cases beyond his or her competence and responsibility
- Aligns the communication of a portfolio according to the reporting governance in the permanent organisation
- Applies reporting standards of the parent organisation to his or her portfolio
- Applies the organisation's forms of quality assurance
- Monitors and controls the communication within a portfolio and between the portfolio and the organisation

6.3.2.4 Align the portfolio with human resource processes and functions

Description: The human resource function provides multifaceted support to the portfolio by way of team member contracts, temporary employment, training, salaries, performance incentives, as well as policies for managing stress, well-being and ethics, and team entries and withdrawals. Following the human resource processes and functions can potentially increase resource availability and quality and will also help to identify the competences needed by all resources. To ensure the necessary support from the

human resource function, the professional or practitioner requires has to be able to establish and maintain relations with relevant contact people within it.

Measures

- Uses the human resource function for acquiring staff with the required competences
- Deals with the boundaries between the temporary organisation and the human resource function
- Establishes and maintains relations with the human resource function
- Uses human resource processes to provide training and professional or practitioner competence development
- Explains the characteristics of resource management and its value for portfolio management

6.3.2.5 Align the portfolio with finance and control processes and functions

Description: The finance and control function of an organisation is often established as a line function providing mandatory rules, procedures and guidelines for the management, accounting and reporting of financial expenditure by the organisation. Knowing these rules and how to utilise them effectively and efficiently are crucial for the professional or practitioner for successful funding, monitoring and/or reporting on financial aspects of the portfolio and component projects and programmes. The finance and control function of an organisation often serves as a support function offering a variety of utility functions for the professional or practitioner such as how to apply for, justify, manage and report on financial resources and how to manage, administer, distribute, monitor and manage finances. The professional or practitioner needs to understand various financial models for funding (public, private, public-private partnerships, subsidies, commercial, etc.) endorsed by the permanent organisation. To ensure the necessary support from the finance and control function, the professional or practitioner can benefit from establishing and maintaining relations with the relevant contact people within the finance and control function.

Measures

- Knows the processes of a finance and control function
- Distinguishes between the compulsory and optional utilities of the finance and control function
- Monitors and controls whether rules, guidelines and other financial utilities are effectively and efficiently used in projects to the benefit of his or her portfolio
- Communicates and reports the status and trends of financial tasks clearly and objectively

6.3.3 Compliance, Standards and Regulations

Definition: The compliance, standards and regulations competence element describes how the professional or practitioner interprets and balances the external and internal restrictions in a given area such as country, company or industry. Compliance is the process of ensuring adequate adherence to a given set of norms. Compliance requirements operate on a spectrum from voluntary and informal to mandatory and formal. Standards and regulations influence and define the way portfolios should be organised and managed to be feasible and successful. Standards and regulations address compliance with requirements that include legislation and regulations, contracts and agreements, intellectual property and patents, health, safety, security and environmental protection, and professional standards.

Purpose: The purpose of this competence element is to enable the professional or practitioner to influence and manage the alignment of the relevant standards and regulations within the permanent

organisation; the relevant sources of legislation and the standards and norms of both the organisation and the wider society; and to improve the organisation's approach to these areas.

Description: Projects, programmes and portfolios face different restrictions and requirements for developing a product or service apart from the effect of the production and project management processes. These restrictions correspond to the geographical, social and professional specifics of the portfolio and its external environment in the form of laws, standards and regulations. Regularly during the life cycle of a portfolio, the professional or practitioner needs to (re-)analyse the scope and configuration of the portfolio and seek out the relevant standards and regulations that will have a direct or indirect influence on it. The relevant standards and regulations should be considered as potential risks and opportunities that need management. Compliance with relevant standards and regulations may impact on the organisational structures, processes and culture. In the domain of project management, the professional or practitioner may be called upon to understand and integrate relevant standards within their project.

This competence element includes benchmarking and improving the organisational portfolio management competences. Developing portfolio management competence is a constant process, a part of an organisation's continuous improvement strategy and the duty of every professional or practitioner. It involves learning and improving strategies for influencing the project, programme and portfolio management cultures in organisations. The professional or practitioner should use this competence to demonstrate how all parts and layers of the management system might be improved. By increasing the project portfolio management competence, the organisation increases its ability to choose and perform successful portfolios and thus achieve the sustainability of the organisation.

Knowledge

- Legal concepts and understanding of contract law, trade practices and other relevant legislation
- Legal and regulation systems
- Autonomous profession regulation
- Professional standards and norms, e.g. IPMP standards, IPMA Standards, PMI Standards
- ISO standards (e.g. ISO21500 guidance on project management, ISO21504 guidance on portfolio management or other standards of ISO/TC258)
- Project, programme and portfolio management methodologies, tools and methods
- Sustainability principles
- Benchmarking theory
- Benchmarking tools and methods
- Knowledge management
- Codes of ethics
- Codes of business conduct
- Differences between law theories

Skills

- Critical thinking
- Benchmarking
- Adapting standards to specific organisations
- Communicating standards and regulations

- Leading by example
- Diligence and persuasiveness
- Systems thinking
- Related competence elements
- All other perspective CEs
- People 5: Leadership
- People 9: Negotiation
- Practice 1: Portfolio design
- Practice 2: Benefits
- Practice 5: Organisation and information
- Practice 6: Quality
- Practice 11: Risk and opportunity

Key Competence Indicators

6.3.3.1 Identify, and ensure that the portfolio complies with all relevant legislation

Description: The professional or practitioner knows the legal policies of an organisation and should be able to see them implemented in a portfolio and component projects and programmes. Furthermore the professional or practitioner knows which legislation and regulations (civil, criminal, labour, intellectual property, etc.) and common good practices are relevant to the portfolio, and any component projects and programmes. The professional or practitioner has to ensure that the portfolio organisation operates within the law and is able to determine which projects or activities have special legal requirements and identify the legal principles that may apply.

Furthermore, the professional or practitioner is able to identify the requirements of regulatory agencies and their relevance to the portfolio, and implement appropriate review and inspection procedures to ensure ongoing compliance. This is especially important in portfolios that contain projects and programmes operating across different cultures or legal systems.

Measures

- Knows the legal context and its applications
- Identifies and uses the relevant legislation or regulation
- Identifies risks in the regulations in relation to the business and consults the experts
- Acknowledges and manages the regulatory agencies as stakeholders
- Controls whether procurement routes of a portfolio are aligned with the regulations
- Monitors and controls whether the portfolio organisation is performing according to legislative context and can do proper adjustments

6.3.3.2 Identify, and ensure that the portfolio complies with all relevant health, safety, security and environmental regulations (HSSE)

Description: The professional or practitioner should know the health, safety, security and environmental (HSSE) regulations and be able to identify the areas relevant to the portfolio. Furthermore, the professional or practitioner is able to recognise any potential HSSE issues which require the engagement of external experts in order to manage them. The professional or practitioner is able to

determine how portfolio activities or portfolio products can affect organisation members within the portfolio and the stakeholders will undertake regular health checks to see whether HSSE protective measures have been applied throughout the organisation.

The professional or practitioner is able to guarantee the balance of the economic, social and environmental aspects of the portfolio and to meet the requirements for sustainable development.

The professional or practitioner is also able to identify security and safety risks to the portfolio and any component project or programme and ensure these have been appropriately addressed to ensure ongoing security and safety levels of the portfolio and the wider organisation. This is especially important if the portfolio is being run across different countries/cultures.

Measures

- Monitors whether HSSE regulations have been implemented
- Checks whether the HSSE context has been implemented in the project and programme goals
- Controls risks arising from implementing HSSE measures to the portfolio organisation
- Provides a safe, secure and healthy environment for the portfolio organisation
- Applies HSSE for portfolio sustainability
- Monitors and controls whether the portfolio organisation is performing according to HSSE context

6.3.3.3 Identify, and ensure that the portfolio complies with all relevant codes of conduct and professional regulation

Description: The professional or practitioner is able to assure portfolio integrity by conducting health checks to determine whether the relevant standards and regulations have been applied throughout the organisation. Furthermore, the professional or practitioner implements a code of conduct across the portfolio organisation, based on the organisation mission, corporate values and quality policy. Sometimes the conduct and the trading customs are also prescribed by law; thus the professional or practitioner needs to integrate codes of conduct with the broader legislative context. Codes of conduct can often collide with procurement procedures and, if not understood well, could pose a high risk for the organisation. Therefore, by identifying and integrating codes of conduct with a higher regulation context, and undertaking regular health checks, the professional or practitioner assures the portfolio organisation runs with integrity within legal and regulatory boundaries.

Measures

- Identifies the law of contract and fair trading legislation
- Identifies different procurement methods and related policies
- Identifies and reflects ethical principles and can define and implement appropriate codes of conduct within the portfolio organisation
- Sustains professional integrity by ensuring ongoing use of the code of conduct throughout the organisation
- Monitors and deals with breaches of the codes of conduct within the portfolio organisation

6.3.3.4 Identify, and ensure that the portfolio complies with, relevant sustainability principles and objectives

Description: The professional or practitioner is able to assess the impact of the portfolio on the environment and society. Realising his or her responsibility, the professional or practitioner researches,

recommends and applies measures to limit or compensate negative consequences. The professional or practitioner follows (or even exceeds) guidelines and rules on sustainable development coming from within the organisation and from the wider society, and is able to realise a workable balance between the demands of society, impacts to the eco-environment and the economy. The professional or practitioner takes into account that sustainability aspects, measures and attitudes often vary in different countries and cultures.

Measures

- Identifies the social and environmental consequences of the portfolio
- Defines and communicates the sustainability targets for the portfolio and its outcomes
- Aligns objectives with organisational strategy for sustainability
- Balances the demands of society, the environment and the economy (people, planet, profit) with portfolio processes and products
- Encourages the development and diffusion of environmentally friendly technologies

6.3.3.5 Assess, use and develop professional standards and tools for the portfolio

Description: The professional or practitioner is able to identify key professional standards and regularly check whether the portfolio is being run in accordance with appropriate tools, methods and practices, such as successful project, programme and portfolio management methodologies. In doing so, the professional or practitioner takes into account the nature and peculiarities of the portfolio business. The professional or practitioner takes into account that good practices are usually a combination of worldleading standards and a company's own developed tools and methods. Therefore the professional or practitioner always tries to find the best recipe for managing the portfolio by utilising top professional standards (one or several) and starting an in-house development of the management approach. The professional or practitioner usually engages in due diligence projects by doing external assessment, such as the IPMA Project Excellence Award or IPMA Delta Assessment, in order to identify the current level of maturity of the organisation and define the further steps to improve that maturity.

Measures

- Identifies and determines the relevant professional standards to be used within the portfolio and any component projects and programmes
- Manages the risks arising from applying the standards across the portfolio
- Benchmarks current project portfolio management practice with good practices
- Engages in external assessments of the organisation's portfolio management practices and maturity
- Identifies steps for further improvements
- Initiates development of custom-made standards
- Disseminates the acquired know-how throughout the organisation
- Controls whether new improvements/developments are being practised within the portfolio organisation

6.3.3.6 Assess, benchmark and improve the organisational portfolio management competence

Description: The benchmarking portfolio management competence is a process of continuous improvement by comparing the organisation's portfolio management processes with those which are identified as good practice. The professional or practitioner is striving to develop portfolio management competence. Professional or practitioners are also able to identify and benchmark the governing processes and structures supporting the portfolio management process.

Good practices can often be identified as those that apply in world class organisations. Usually these organisations are promoted as top portfolio management performers and have been recognised by winning national or international project management awards. The purpose of the benchmarking process is to improve organisational performance by acquiring the know-how of a superior organisation. Organisational benchmarks often follow a staged maturity or competence model of organisations defining what structures, processes, methods and professional or practitioner skills an organisation has to fulfil to reach a certain maturity level or competence class.

Benchmarking can be conducted on an internal basis, such as against different projects within an organisation; on a competitive basis, such as with a direct competitor; or on a functional or generic basis, such as with an organisation not competing in the same market or within the same industry. Professional or practitioners should always try to improve their ability to run and manage portfolios and component projects and programmes in a way that contributes to the organisation's strategic goals. Finally, the professional or practitioner should constantly be checking whether predefined improvements are being integrated throughout the organisation.

Measures

- Identifies and assesses the relevant deficient areas of organisational competence in project, programme or portfolio management
- Sets relevant benchmarks for the deficient areas
- Identifies the benchmarking basis and good practice
- Benchmarks against the good practices
- Identifies and integrates measures for the needed improvements
- Monitors and controls implementation of the identified measures and assesses the benefits gained
- Disseminates the acquired know-how throughout the organisation
- Controls whether benchmarked improvements are being practised throughout the organisation

6.3.4 Power and interest

Definition: The power and interest competence element describes how the professional or practitioner recognises and understands informal personal and group interests and the resulting politics and use of power. This competence element defines how professional or practitioners participating in portfolios should recognise how informal influences (resulting from personal and group ambitions and interests, and modified by personal and group relations) relate with the portfolio context. These informal influences differ from formal interests (as for instance formalised in a business justification) that derive from the organisation's strategy or from standards, regulations, etc.

Purpose: The purpose of this competence element is to enable the professional or practitioner to use power and interest techniques to achieve stakeholder satisfaction and deliver the agreed outcomes within the agreed constraints.

Description: Power is the ability to influence the behaviour of others. A substantial part of influence comes from informal power, that is, that part of power which is not 'solidified' into formal roles, structures or processes. This informal aspect of power is often motivated by personal ambitions and interests. Stakeholders usually also have personal ambitions and interests and they will often try to use their

influence to suit the processes and/or outcomes of the portfolio to their interests. These actions may help or thwart the portfolio. Understanding and being able to influence and use these informal personal interests, and the resulting politics, is essential to arriving at project, programme or portfolio success.

Apart from cultural aspects and values, each person has his or her own style and personality. Professional or practitioner approach will influence the way power is exercised. In the domain of portfolio management, the professional or practitioner may be called upon to exert sufficient influence in order to realise the success of the portfolio. The professional or practitioner may also need to recognise and prioritise the interests of key stakeholders.

Interest is an attraction to a specific topic or desired outcome, for instance a certain desire towards or away from an object, situation, position, outcome or opinion. People often try to realise their interests by exercising their influence. Interest is often pursued through formal and informal relations, which can result in group influence. Groups may consist of informal groups of colleagues or friends, or formal structures such as departments, councils and boards. In formal groups, care should be taken to distinguish the formal role or power from the informal influence, which may come from other power sources. Examples of informal power include referent or expert power.

Knowledge

- Formal organisation (staff, line, etc.) and informal structures
- Decision processes and informal decision making
- Formal and informal power and influence
- Difference between power and authority
- Reach of influence
- Sources of interests
- Compliance
- Persuasion
- Conformity
- Bases of power
- Project psychology
- Organisational culture and decision making
- Power theories

Skills

- Understanding psychological processes
- Recognising and using influence
- Using power when appropriate
- Personal and organisational values awareness
- Understanding long-term stakeholder interests
- Empathy

Related competence elements

- All other perspective CEs
- People 2: Personal integrity and reliability
- People 3: Personal communication
- People 4: Relations and engagement
- People 5: Leadership

- People 9: Negotiation
- Practice 1: Design
- Practice 12: Stakeholders

Key Competence Indicators

6.3.4.1 Assess the personal ambitions and interests of others and the potential impact of these on the portfolio

Description: People have goals and ambitions, for example career goals, or a desire to improve society or improve themselves. They also have interests that are related to these ambitions and influence the interests they have in the portfolio and any component projects and programmes and their success. Part of their ambitions and interests will often be congruent with their present formal position, that is, performing the tasks that they are formally required to do may help realise their ambitions and interests. Then again, their ambitions and interests may surpass or even be partly at odds with the formal interests of their formal position. Being able to recognise the ambitions and personal interests of people is often necessary in order to work with them (as stakeholder, team member or colleague) in an efficient and effective way.

Measures

- Acknowledges and assesses the personal ambitions and interests of relevant people or groups
- Acknowledges and assesses the differences between personal and organisational interests and goals

6.3.4.2 Assess the informal influence of professional or practitioners and groups and its potential impact on the portfolio

Description: Informal influence has to be distinguished from the formal influences as laid down in organisational structures, documents and processes. People may have influence for many reasons and through many different means. Apart from the legitimate power that is derived from a position in an organisation, such as a department head, executives, judge or school teachers) there are many other power bases professional or practitioners use, such as persuasion (coercive power), incentives and punishments (reward power), connections (referent power), and knowledge (expert power). Relations are a strong base of power, too. Influencing decisions through use of personal relations is a common and often effective way. There is often a marked difference in the ability of people or groups to influence certain kinds of decisions, or decisions taken in a specific knowledge area or part of the organisation ('reach' of influence). Every person and group influence has its own reach, and it is important to know this reach.

Measures

- Acknowledges and can estimate the influence, power and reach of certain professional or practitioners in various settings
- Discerns group affiliations and relations in relation to the portfolio

6.3.4.3 Assess the personalities and working styles of others and employ them to the benefit of the portfolio

Description: Everybody is unique, and will act and operate in his or her specific way. Style is also influenced by cultural factors, as discussed in 'Culture and values'. Different people may have the same ambitions and/or interests, yet may use a different style in using their influence. Other people may display the same behaviour or style, yet differ in ambitions and/or interests. The professional or practitioner has to acknowledge the differences while working with professional or practitioners and groups in an efficient and effective way.

Measures

- Identifies and acknowledges the differences between behavioural style and personality
- Identifies and Acknowledges the differences between cultural aspects and personality

6.3.5 Culture and Values

Definition: The culture and values competence element describes the professional or practitioner's approach to influence on the organisation's culture and values and the wider society in which the portfolio is situated. It also includes the acknowledgement by the professional or practitioner participating in or leading a portfolio of the consequences of these cultural influences for the portfolio and how to incorporate this knowledge in the management of the portfolio. Culture may be defined as a set of related behaviours within a community, and the importance that professional or practitioners within the community attach to it. Values may be defined as a set of concepts on which the professional or practitioners in the community base their actions. Explicit definitions of values might include codes of ethics. Many organisations also describe corporate values explicitly in their strategy.

Purpose: The purpose of this competence element is to enable the professional or practitioner to recognise and integrate the influence of internal and external cultural aspects on the portfolio approach, objectives, processes, sustainability of the outcomes, and agreed outcomes.

Description: Organisations are social systems, where personal behaviour is embedded in a social context of shared values, visions, norms, symbols, beliefs, habits, goals, etc.; in short, a culture. This culture has formal, explicit origins and aspects (such as the organisation's explicit mission and corporate values) as well as informal, more implicit aspects (such as beliefs, common practices, etc.). Moreover, every organisation operates in a society, which also has a specific culture (and possibly subcultures). All these cultural aspects affect the way the people within that society or organisation interact with each other and all other internal and external stakeholders. Portfolios are integral parts of the parent organisation(s) though need their internal culture to be aligned with external cultures (external adaptation and internal integration). In the domain of portfolio management, the professional or practitioner may be called upon to align the portfolio with the organisational culture and values set. In a multi-cultural portfolio, the professional or practitioner may need to navigate multiple cultural and value norms.

Culture and value alignment is even more crucial for portfolios that extend across different societies, organisations or groups, thereby forming a multi-cultural environment. During the whole life cycle of a portfolio, the professional or practitioner needs to acknowledge the relevant culture(s) within the internal and external context of the portfolio and the organisation. The professional or practitioner has to align (and periodically re-align) the portfolio's culture to these in order to reach the goals and objectives in the most effective and efficient way. If available, results of researches, internal or external standards, regulations or guidelines (e.g. governance principles, codes of conduct) for aligning the cultures may be

used. Lessons learned of projects or programmes could be used to improve the culture alignment in future.

Knowledge

- Relevant cultural traits, values, norms and admissible behaviour
- Organisational mission and vision
- Mission statements
- Corporate values and policies
- Quality policies
- Ethics
- Corporate social responsibility (CSR)
- Green project management
- Theories about culture

Skills

- Values awareness
- Cultural awareness
- Respect for other cultures and values
- Aligning to and working within different cultural environments
- Dealing with issues related to cultural aspects
- Bridging different cultures and values to achieve project, programme and portfolio objectives

Related competence elements

- All other contextual CEs
- Practice 1: Portfolio design
- Practice 6: Quality
- People 2: Personal integrity and reliability
- People 3: Personal communication
- People 4: Relations and engagement

Key Competence Indicators

6.3.5.1 Assess the culture and values of the society and their implications for the portfolio

Description: All portfolios are embedded in a society (frequently in more than one). A society's values and unwritten rules can deeply influence the way in which communication is executed and decisions are made. It can also influence how transgressions from the common norm are judged and dealt with; it can define or influence working hours, and how, when, where and with whom information, office space and meals can be shared, etc. The professional or practitioner needs a working knowledge of the cultural basis, values and norms of the society or societies in which the portfolio and all component projects and programmes take place. The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the portfolio, take these into account in the approach and periodically review them.

Measures

- Knows and acknowledges the cultural values, norms and demands of a society
- Knows and acknowledges the implications of cultural values, norms and demands for the portfolio

- Works according to societal cultural demands and values without compromising personal values

6.3.5.2 Align the portfolio with the formal culture and corporate values of the organisation

Description: All portfolios need to be aligned with the values of the organisation and have to follow the formal cultural rules and demands of related functional departments or support units, and the culture of component projects and programmes and strategic decision making bodies. Sometimes the espoused values are written down in one or more documents (for instance, mission statement, quality policy, corporate values). The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the portfolio and component projects and programmes and take these into account in the approach. Moreover, the professional or practitioner needs to be sure that the portfolio supports the sustainable development of the organisation, which also includes corporate social responsibility (CSR). CSR is a lever of control in complying with legal and non-governmental regulations, professional standards and other ethical and international norms. By CSR, if practised in the right way, an organisation encourages a positive impact through its activities on the environment, consumers, employees, communities, stakeholders and all other members of the society.

Measures

- Acknowledges and respects the organisation's formal norms and demands
- Acknowledge and respect the organisation's corporate values and mission
- Works according to the quality policy of an organisation
- Acknowledges the implications of formal norms, demands, corporate values and mission and quality policy on the portfolio
- Acts sustainably by practising corporate social responsibility

6.3.5.3 Assess the informal culture and values of the organisation and their implications for the portfolio

Description: All portfolios and their component projects and programmes are linked to an organisation (or more than one) with its own informal culture. While the formal aspects of the organisational culture can have a significant influence, many more aspects, such as artefacts and assumptions, also influence an organisation's culture or subcultures. Artefacts include its architecture, furniture, dress codes and office jokes. Assumptions are deeply embedded, usually unconscious behaviours, such as the way people address and treat each other (including subordinates and managers), how problems and challenges are dealt with and the tolerance for mistakes or irregular behaviour, all resulting from the history and cultural background of the organisation, its employees and its management. The professional or practitioner should analyse the cultural basis of the organisation(s) for and in which the portfolio and component projects and programmes takes place. The professional or practitioner should be able to discern the relevant implications of these cultural aspects for the portfolio and take these into account in the approach to the portfolio.

Measures

- Acknowledges, analyses and respects the informal culture and values of the organisation(s)
- Acknowledges and respects the implications of the organisation's informal culture and values for the portfolio
- Works in conformity with the organisation's informal values and norms

6.4 People

The competence area 'people' deals with the personal and social competences of the professional or practitioner. It defines ten competences:

- Self-reflection and self-management
- Personal integrity and reliability
- Personal communication
- Relations and engagement
- Leadership
- Teamwork
- Conflict and crisis
- Resourcefulness
- Negotiation
- Results orientation

6.4.1 Self-reflection and self-management

Definition: Self-reflection is the ability to acknowledge, reflect on and understand one's own emotions, behaviours, preferences and values and to understand their impact. Self-management is the ability to set personal goals, to check and adjust progress, and to cope with daily work in a systematic way. It includes managing changing conditions and dealing successfully with stressful situations.

Purpose: The purpose of this competence element is to enable the professional or practitioner to control and direct his or her behaviour by acknowledging the influence of his or her personal set of emotions, preferences and values. This enables effective and efficient use of the professional or practitioner's resources and leads to positive work energy and a balance between inside and outside work.

Description: An intrinsic set of emotions, preferences and values guides all our decisions and actions. Being aware of and reflecting on this set and its impacts on behaviour offers you the opportunity to lead yourself. Reflecting on personal values and behaviour, seeking feedback and being aware of the professional or practitioner natural primary reactions opens up the possibility of changing and improving behaviour. Being able to control primary reactions supports consistent behaviour, decision making, communication and the leading of others. Adopting a systematic and disciplined approach to coping with daily work means managing how to spend time in order to accomplish prioritised objectives. Increasing the work efficiency does not mean working harder, but enables the professional or practitioner to achieve results to a higher level of satisfaction and motivation. The professional or practitioner works autonomously and independently from external influences, using opportunities to apply lessons learned.

Knowledge

- Reflection and self-analysis techniques
- Stress management of self and others
- Relaxation techniques and methods
- Pace of work
- Feedback rules and techniques
- Prioritisation techniques
- Personal time management
- Checks of progress
- Formulation of objectives (e.g. SMART- method)
- Effectiveness theories

Skills

- Awareness of own work styles and preferences
- Awareness of instances that lead to personal distractions
- Self-reflection and self-analysis
- Controlling emotions and focusing on tasks, even when provoked
- Self-motivation
- Delegating tasks
- Setting meaningful and authentic professional or practitioner goals
- Carrying out regular checks of progress and results
- Dealing with mistakes and failures

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators**6.4.1.1 Identify, and reflect on the ways in which own values and experiences affect the work**

Description: To identify and reflect personal values and passions the professional or practitioner has to acknowledge and reflect on his/her intrinsic set of opinions, standpoints, ideals and ethical values. This is the basis for consistent decisions and actions.

Personal experience has a strong influence on how the professional or practitioner makes sense of situations and people. His or her personal experience of how the world works and how people behave influences the way the professional or practitioner thinks and acts. By understanding the personal sense-making processes, the professional or practitioner can identify why his or her interpretation might differ from someone else's, and so reduce the effect of bias. The opposite is to neglect the influence of experience and expect that everyone sees the 'reality' as the professional or practitioner does.

Measures

- Reflects on own values
- Uses own values and ideals to shape decisions
- Communicates own principles and personal demands
- Expresses and discusses own experience
- Puts own experience in perspective
- Uses own experience to build hypotheses about people and situations

6.4.1.2 Build self-confidence on the basis of personal strengths and weaknesses

Description: Being self-aware includes reflection on personal strengths and weaknesses. The professional or practitioner is aware of what the professional or practitioner is good at and passionate about and which tasks should be delegated or left to others. Knowing his or her personal talents and accepting limitations creates a feeling of personal worth. The professional or practitioner demonstrates self-confidence by relying on personal capacities and capabilities. The opposite is to remain troubled

about your person or personality, continuing to doubt your talents and potential and overreacting if others impose on your personal weaknesses.

Measures

- Identifies own strengths, talents, limits and weaknesses
- Leverages strengths, talents and passions
- Identifies solutions to overcoming personal weaknesses and limitations
- Maintains eye contact even in stressful situations
- Accepts setbacks without losing confidence

6.4.1.3 Identify, and reflect on, personal motivations to set personal goals and keep focus

Description: Knowing one's personal motivations enables the professional or practitioner to set personal goals that give direction and release energy. The professional or practitioner knows what drives him or her and can transform this into personal goals. The professional or practitioner has control over his or her emotions, even when provoked. The opposite is to 'go with the flow', live life as it comes and refrain from giving a direction. Once the goals are set, the professional or practitioner has a diligent approach to staying focused on the tasks. The professional or practitioner is able to focus on tasks despite interruptions and is aware of the instances that lead to distraction.

The professional or practitioner avoids procrastinating and postponement, which causes stress to the professional or practitioner as well as to teams. This also includes the application of prioritisation techniques. Keeping focus includes the ability to cope with daily work as well as communications and relations.

Measures

- Demonstrates knowledge of own motivations
- Sets personal and professional goals and priorities
- Selects actions that contribute to the personal goals
- Names personal distractors
- Regularly reflects in order to maintain focus on the goals
- Delivers personal commitments on time
- Focuses on tasks despite numerous distractions or interruptions
- Provides own direction or seeks clarification in uncertain situations

6.4.1.4 Organise personal work depending on the situation and own resources

Description: No two situations are the same. What works or worked in one situation may not work in another. The professional or practitioner therefore strives to 'read' situations and people and adapts behaviour to the specific circumstances in order to realise the intended results and reach his or her goals. By choosing a personal organisation and managing his or her own resources, the professional or practitioner shows the ability to prioritise and balance the various tasks in an effective and efficient way. Time, money and energy wasting is avoided by prioritising responsibilities and performing value-adding tasks. The professional or practitioner arranges workload to avoid too much stress and includes relaxation when possible and necessary.

Measures

- Keeps record of own time planning
- Prioritises competing demands

- Says no when appropriate
- Engages resources to maximise delivery
- Adapts language
- Develops tactics appropriate to the situation

6.4.1.5 Take responsibility for personal learning and development

Description: The professional or practitioner is focused on continuous learning and always strives to improve the quality of his or her work, actions and decisions. Accepting feedback and seeking consultation enables personal development and learning. If the professional or practitioner understands and utilises the perceptions and views of others, including critical observations or remarks, personal positions and behaviour can be questioned and improved. The opposite is to remain unchanging, seeing all feedback as criticism, never accepting criticism and refusing to alter his or her ways. The professional or practitioner strives to develop by leveraging all criticism and feedback as opportunities for growth.

Measures

- Uses mistakes or bad results as an impulse for learning activities
- Uses feedback as a chance for personal development
- Seeks consultation
- Measures own performance
- Focuses on continuous improvement of own work and capacities

6.4.2 Personal integrity and reliability

Definition: The delivery of portfolio benefits involves making many professional or practitioner commitments to get things done. Professional or practitioners must demonstrate personal integrity and reliability because a lack of these qualities may lead to a failure of the intended results. Personal integrity means the professional or practitioner is acting in accordance with his or her own moral and ethical values and principles. Reliability is acting depend-ably, according to expectations and/or agreed behaviour.

Purpose: The purpose of this competence is to enable the professional or practitioner to make consistent decisions, take consistent actions and behave consistently in portfolios. Maintaining personal integrity supports an environment built on trust that makes others feel secure and confident. It enables the professional or practitioner to support others.

Description: Integrity and reliability are built on consistency of values, emotions, actions and outcomes, by saying what you do, doing what you say. By using ethical standards and moral principles as a basis for actions and decisions, and by taking responsibility for professional or practitioner actions and decisions, confidence is enabled and promoted. The professional or practitioner is a person to rely on.

Knowledge

- Codes of ethics/codes of practice
- Social equity and sustainability principles
- Personal values and moral standards
- Ethical systems
- Universal rights

- Sustainability

Skills

- Development of confidence and building of relationships
- Following own standards under pressure and against resistance
- Correcting and adjusting personal behaviour

Related competence elements

- All other people CEs
- Perspective 3: Compliance, standards and regulations
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

6.4.2.1 Acknowledge and apply ethical values to all decisions and actions

Description: The professional or practitioner should acknowledge his or her own values, as these values are the foundation for consistent decisions and actions. Understanding values includes being able to express opinions and positions on a variety of topics. The professional or practitioner communicates his or her principles, thereby demonstrating what they stand for. The professional or practitioner makes others feel secure by being predictable in decisions and actions. The professional or practitioner is able to identify inconsistencies and to articulate reasons for discord between statements and actions.

Measures

- Knows and reflects own values
- Uses own values and ideals to shape decisions
- Communicates own principles

6.4.2.2 Promote the sustainability of outputs and outcomes

Description: Promoting sustainability means focusing on the endurance of solutions even when engaged in time-limited tasks. Sustainability is not only about social equity, environment protection or economic results. It is the consideration of the long-term outcomes and effects of behaviour. The professional or practitioner has the ability to keep the bigger picture in mind and act accordingly.

Measures

- Proactively addresses sustainability issues in solutions
- Considers and incorporates long-term outcomes into the solution

6.4.2.3 Take responsibility for own decisions and actions

Description: To take responsibility means the professional or practitioner takes decisions and acts while keeping in mind that the professional or practitioner is fully liable for the consequences – in both a positive and negative way. The professional or practitioner sticks by decisions and agreements established with others. The professional or practitioner feels responsible for the team success on behalf of all the interested parties.

Measures

- Assumes full responsibility for own decisions and actions
- Demonstrates ownership of both positive and negative results
- Takes decisions and sticks to agreements established with others
- Addresses personal and professional shortcomings that get in the way of professional success

6.4.2.4 Act, take decisions and communicate in a consistent way

Description: Consistency means that the professional or practitioner makes sure that words, behaviour and actions match. By applying the same guiding principles throughout your actions, decisions and communication your behaviour is predictable and repeatable in a positive sense. Being consistent does not exclude flexibility in revising plans, if the need for changes is indicated or to adapt to special situations.

Measures

- Demonstrates alignment between words and actions
- Uses similar approaches to solve similar problems
- Adjusts personal behaviour to the context of the situation

6.4.2.5 Complete tasks thoroughly in order to build confidence with others

Description: The professional or practitioner completes tasks in a thorough and careful way. This inspires others to be confident, and make promises and agreements. The professional or practitioner is recognised as someone on whom others rely. Work results would be characterised by others as consistently good quality.

Measures

- Completes work assignments thoroughly and carefully
- Earns confidence through the delivery of complete and accurate work

6.4.3 Personal Communication

Definition: Personal communication includes the exchange of proper information, delivered accurately and consistently to all relevant parties.

Purpose: The purpose of this competence element is to enable the professional or practitioner to communicate efficiently and effectively in a variety of situations, to different audiences and across different cultures.

Description: Personal communication describes the essential aspects of effective communication. Both the content and the means of communication (tone of voice, channel, and amount of information) have to be clear and appropriate for the target audience. The professional or practitioner has to verify the understanding of messages by actively listening to the target audience and seeking feedback. The professional or practitioner promotes open and sincere communication and is able to use various means for communication (presentations, meetings, written forms, etc.) and acknowledge their value and limitations.

Knowledge

- Differences between information and message
- Different methods of communicating

- Different questioning techniques
- Feedback rules
- Facilitation
- Presentation techniques
- Communication channels and styles
- Rhetoric
- Characteristics of body language
- Communication technologies

Skills

- Use different ways of communicating and different styles for effective communication
- Active listening
- Questioning techniques
- Empathy
- Presentation and moderation techniques
- Effective use of body language

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 12: Stakeholders

Key Competence Indicators

6.4.3.1 Provide clear and structured information to others and verify their understanding

Description: To give clear information means to structure and translate information in such a way that the receiver can understand and use it. The professional or practitioner must utilise a logical and structured way of communicating in order to verify understanding. The professional or practitioner must obtain confirmation that the receiver of information has understood the message as intended. That means focusing on the receiver, not on the information itself, and asking for validation when needed.

Measures

- Structures information logically depending on the audience and the situation
- Considers using story-telling when appropriate
- Uses language that is easy to understand
- Leverages public speaking and presentations
- Coaches and gives training
- Leads and facilitates meetings
- Uses visualisation, body language and intonation to support and emphasise messages

6.4.3.2 Facilitate and promote open communication

Description: To facilitate and promote open communication means actively inviting others to give their input and opinions on relevant topics. This requires an atmosphere of confidence, so that people can express their ideas and opinions without being rebuffed, punished or ridiculed. It should be made clear

when and how others are free and/or invited to propose ideas, emotions and/or opinions, and when the time is less appropriate. In the latter situations, people and their input should still be treated with respect. To listen and give feedback is to seize opportunities for the exploration and exchange of opinions. The professional or practitioner has a genuine interest in others' views and creates open and informal frameworks for feed-back. The professional or practitioner makes people feel they and their opinions are valued.

Measures

- Creates an open and respectful atmosphere
- Listens actively and patiently by confirming what has been heard, re-stating or paraphrasing the speakers' own words and confirming the understanding
- Does not interrupt or start talking while others are talking
- Is open and shows true interest in new ideas
- Confirms message/information is understood or, when needed, asks for clarification, examples and/or details
- Makes clear when, where and how ideas, emotions and opinions are welcome
- Makes clear how ideas and opinions will be treated

6.4.3.3 Choose communication styles and channels to meet the needs of the audience, situation and management level

Description: The professional or practitioner chooses the appropriate way of communicating for the target audience. The professional or practitioner is able to communicate on different levels and through different channels. Formal or informal, neutral or emotional communication should all be considered, as well as whether written, oral or visual communication is most appropriate.

Measures

- Selects appropriate communication channels and style depending on the target audience
- Communicates via selected channels according to the selected style
- Monitors and controls communication
- Changes the communication channels and style depending on the situation

6.4.3.4 Communicate effectively with virtual teams

Description: A virtual team consists of professional or practitioners who work across time zones, space and/or organisational boundaries. Communication within virtual teams is a challenge, as not all are located in the same environment and/or organisation, and they may be distributed over several organisations, cities, countries or continents. Communication between virtual team members is often asynchronous and not face-to-face, and has to use modern communication technology. The communication procedures have to consider aspects such as language, channel, content and time zones.

Measures

- Uses modern communication technology, e.g. webinars, tele-conferences, chat, cloud computing
- Defines and maintains clear communication processes and procedures
- Promotes cohesion and team building

6.4.3.5 Employ humour and sense of perspective when appropriate

Description: Work in projects and programmes can often be stressful. Being capable of viewing situations, problems and even your own work from different viewpoints is an important asset. Humour enables professional or practitioners to acquire a sense of perspective – a way of judging how good, bad or important something is compared with other things. The release of tension through humour often facilitates cooperation and decision making. Humour is a powerful tool to decrease tension in situations where conflicts threaten to arise. Provided it is used in the right way, at the right time and with respect, humour can also facilitate communication.

Measures

- Changes communication perspectives
- Decreases tension by use of humour

6.4.4 Relations and Engagement

Definition: Personal relations build the foundation for the productive collaboration, personal engagement and commitment of others. This includes one-to-one relations as well as setting up a whole network of relations. Time and attention have to be invested in establishing durable and robust relations with professional or practitioners. The ability to form strong relationships is primarily driven by social competences such as empathy, trust, confidence and communication skills. Sharing visions and goals with professional or practitioners and the team drives others to engage in tasks and to commit to the common goals.

Purpose: The purpose of this competence element is to enable the professional or practitioner to build and maintain personal relations and to understand that the ability to engage with others is a precondition for collaboration, commitment and, ultimately, performance.

Description: Personal relations are initiated by genuine interest in people. Building up relations is twofold. It is about establishing one-to-one relations, as well as creating and supporting social networks. In both situations, the professional or practitioner has to be able to interact openly with others. Once established the relations have to be maintained and improved by establishing and showing confidence, respectful interaction and open communication. Cultural differences can enhance interest and attractiveness as well as chances for misunderstandings that might endanger the quality of relationships. When personal relationships are established it is much easier to engage others when your own visions, goals and tasks are communicated in an enthusiastic way. Another way to engage others and get their commitment is to actively involve them in discussions, decisions and actions. In general, people tend to commit to goals and tasks more easily when asked in advance.

Knowledge

- Intrinsic motivation
- Motivation theories
- Handling resistance
- Values, traditions, professional or practitioner requirements of different cultures
- Network theory

Skills

- Use of humour as icebreaker

- Appropriate ways of communicating
- Respectful communication
- Respecting others and being aware of ethnical and cultural diversity
- Trusting own intuition

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 12: Stakeholders

Key Competence Indicators

6.4.4.1 Initiate and develop personal and professional relations

Description: To initiate and develop personal relations is to seek and make use of chances to establish contact with other people. The professional or practitioner demonstrates interest in people and is ready to engage with them. The professional or practitioner utilises possibilities and situations to create and maintain personal and professional contacts. The professional or practitioner is present, available, open for dialogue, and actively staying in contact. The professional or practitioner is visible and accessible for team members, clients, customers or other stakeholders. The professional or practitioner acts attentively, acknowledges others and keeps them informed.

Measures

- Actively seeks possibilities and situations to make new contacts
- Demonstrates interest in meeting new people
- Uses humour as an icebreaker
- Is present, available and open for dialogue
- Stays actively in contact, establishes a routine for bilateral meetings
- Keeps others informed

6.4.4.2 Build, facilitate and contribute to social networks

Description: Building, facilitating and contributing to social networks has various levels. On the lowest level, the professional or practitioner joins, and contributes to, networks with interesting and/or useful others. By doing so, new relations are established. On the second level, the professional or practitioner creates new networks and circles of his or her own, and so opens up new communication flows between others. The professional or practitioner thus acts as a facilitator or communication hub. The next level of social networking is to make one's own relations available for others. This means enabling, enforcing and establishing relations between others that are sustained even without the professional or practitioner being engaged.

Measures

- Joins and contributes to social networks
- Creates and facilitates social networks
- Organises events for networking
- Facilitates support for networking

6.4.4.3 Demonstrate empathy through listening, understanding and support

Description: To demonstrate empathy means to show real interest and involvement with others and their well-being. The professional or practitioner listens attentively to others and ensures understanding by asking questions for clarification or detail. The professional or practitioner recognises emotions expressed or possibly just experienced by others. The professional or practitioner relates and reacts to these emotions in a sympathetic or compassionate way. The professional or practitioner offers support, even when it is not asked for.

Measures

- Listens actively
- Makes others feel heard
- Asks questions for clarification
- Relates to the problems of others and offers help
- Familiarises with the values and standards of others
- Responds to communication within a reasonable time

6.4.4.4 Show confidence and respect by encouraging others to share their opinions or concerns

Description: Having confidence in someone means having belief in their future actions or decisions, and being convinced of their positive intentions. The professional or practitioner does not have a hidden agenda but shares information with others. The professional or practitioner also accepts that showing confidence is an investment with an insecure outcome.

The professional or practitioner takes others seriously, with their talents and opinions, and that success also depends on their actions and commitment. To get optimal team performance it is crucial to understand the motivation of the team members.

To get there, the professional or practitioner has to spend time with people in order to understand who they are and what makes them tick. The professional or practitioner should keep in mind that the values, experiences and goals of others might be very different from his or her own. Acting respectfully means treating others in a respectful way, as you would like to be treated yourself. The professional or practitioner takes others seriously by cherishing their opinions, their work and their person, regardless of gender, race, social status or background. Cultural diversity is respected. The professional or practitioner considers codes of conduct as guide-lines for decisions and behaviour.

Measures

- Relies on a given word
- Assigns tasks to team members based on confidence
- Expects others to act according to common values and agreements
- Delegates work without monitoring and controlling every single step
- Asks others for their ideas, wishes and concerns
- Notices and respects differences between people
- Embraces the importance of professional and personal variety

6.4.4.5 Share own vision and goals in order to gain the engagement and commitment of others

Description: To share a vision and goals implies acknowledging and demonstrating a positive and enthusiastic attitude towards a certain task, process or goal while showing a realistic optimism. To

inspire others requires an ambitious yet clear vision, realistic objectives and the ability to achieve 'commitment' from the people concerned. Self-commitment is an important requirement for that. Inspiration is often achieved through a shared vision – a view of the future that people can believe in and want to be part of. This vision can either be explicit (even written down) or implicit. The vision serves as a motivator for change.

To engage people and get their commitment means making them feel personally responsible for a good outcome. This can be done by various means – by asking their advice, by making them responsible for a task or by involving them in decisions.

The professional or practitioner should make optimal use of the skills and experience of his or her co-workers. This means that people should be involved in decisions on the basis of what they can add to the existing knowledge. The same goes for sharing information, as this can enhance commitment. However, the professional or practitioner must also be aware of the dangers of information overload. As every team member has their own tasks, in some cases it is better to share information on a 'need to know' basis.

Measures

- Acts positively
- Clearly communicates vision, goals and outcomes
- Invites debate and critique of the vision, goals and outcomes
- Involves people in planning and decision making
- Asks for commitment on specific tasks
- Takes professional or practitioner contributions seriously
- Emphasises the commitment of all to realise success

6.4.5 Leadership

Definition: Leadership means providing direction and guidance to professional or practitioners and groups. It involves the ability to choose and apply appropriate styles of management in different situations. Besides displaying leadership with his or her team, the professional or practitioner needs to be seen as a leader in representing the port-folio to senior management and other interested parties.

Purpose: The purpose of this competence element is to enable the professional or practitioner to lead, provide direction and motivate others, in order to enhance professional or practitioner and team performance.

Description A leader has to be aware of different leadership styles and decide which is appropriate for his or her nature, for the portfolio, and for the team being managed and other interested parties, in all types of situations. The leadership style adopted includes patterns of behaviour, communication methods, attitudes towards conflicts, ways of controlling team members' behaviours, decision-making processes, and the amount and type of delegation. Leadership is important throughout the full life cycle of the portfolio, and becomes especially important when change is required or when there is uncertainty about a course of action.

Knowledge

- Leadership models
- Professional or practitioner learning

- Communication techniques
- Coaching
- Sense-making and sense-giving
- Decision taking (consensus, democratic/majority, compromise, authority, etc.)

Skills

- Personal self-awareness
- Listening skills
- Emotional strength
- Capacity to express a set of values
- Dealing with mistakes and failure
- Sharing values
- Creating team spirit
- Methods and techniques for communication and leadership
- Management of virtual teams

Related competence elements

- All other people CEs
- All practice CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values

Key Competence Indicators

6.4.5.1 Initiate actions and proactively offer help and advice

Description: To take the initiative means having the tendency and ability to start an unrequested action, including coming up with a proposal or advice, taking the lead and/or giving or helping without first being invited to do so. Taking the initiative requires the ability to think ahead, both of possible situations and possible solutions. Taking the initiative adds to one's influence and heightens one's visibility. On the other hand, if the initiative is not welcomed or turns out badly, there is a risk of losing influence or status. So every initiative should always be guided by a careful weighing of pros and cons.

Measures

- Proposes or exerts actions
- Offers unrequested help or advice
- Thinks and acts with a future orientation (i.e. one step ahead)
- Balances initiative and risk

6.4.5.2 Take ownership and show commitment

Description: To take ownership means demonstrating personal buy-in. This commitment to the objectives of the portfolio makes people believe in its value. The professional or practitioner acts as an entrepreneur by taking full responsibility for the process, and by spotting opportunities for improvement. The professional or practitioner constantly monitors processes and results to spot the right occasions for intervention and improvement and opens up possibilities for learning.

Measures

- Demonstrates ownership and commitment in behaviour, speech and attitudes

- Talks about the portfolio in positive terms
- Rallies and generates enthusiasm for the portfolio
- Sets up measures and performance indicators
- Looks for ways to improve the portfolio processes
- Drives learning

6.4.5.3 Provide direction, coaching and mentoring to guide and improve the work of professional or practitioners and teams

Description: To give direction, coaching and mentoring means to give guidance and support to people and teams and establish conditions that engage people with their assignments. Coaching and mentoring is focused on improving the abilities and self-reliance of team members. Direction is guiding them in their activities. The professional or practitioner creates and communicates personal and common objectives and acts from these. The professional or practitioner creates and shares a vision that leads the portfolio. To give direction, coaching and mentoring requires the ability to keep a cool head in demanding and unclear situations. It also requires that the professional or practitioner knows when and in what direction coaching or mentoring are needed and what form they should take. Sometimes it may be better to withhold a proposal or decision for a while to promote the self-reliance or creativity of teams or professional or practitioners.

Measures

- Provides direction for people and teams
- Coaches and mentors team members to improve their capabilities
- Establishes a vision and values and leads according to these principles
- Aligns professional or practitioner objectives with common objectives and describes the way to achieve them

6.4.5.4 Exert appropriate power and influence over others to achieve the goals

Description: To exert power and influence means being visible as a leader and opening up the possibility for others to follow. Therefore one needs to understand the demands of colleagues, subordinates, clients and other interested parties, to respond to them and influence their expectations and opinions. To exert influence also means directing other people's actions, whether or not one is in command. A leader actively shapes views and creates the perception of situations, results and relations through words and actions. Sometimes the use of power is necessary to realise results or resolve deadlock; in other situations, a simple, well-placed word may be even more effective. The open use of power may create resentment or invite counter-power, so a leader should know when to use what power means and in what way. The use and effectiveness of power and influence is always tightly linked to communication. A leader should know the possibilities and limits of each communication means and channel.

Measures

- Uses various means of exerting influence and power
- Demonstrates timely use of influence and/or power
- Perceived by stakeholders as the leader of the portfolio or team

6.4.5.5 Make, enforce and review decisions

Description: Making decisions means being able to select a course of action based on several possible alter-native paths. Often decisions are made with incomplete or even contradictory information, and with uncertain consequences. Making decisions entails consciously selecting from alternatives and choosing the one that is most consistent and aligned with the objectives. Decisions should be taken based upon analysis of the facts, and incorporating the views and opinions of others.

Sometimes the information quality is so poor that decisions are based on intuition. Reviewing and being prepared to change prior decisions based on new information is an essential part of the ability to take decisions. Decisions often have to be taken by others (for instance by line managers, steering committees, etc.). The leader exerts his or her influence to have these others take the right decisions at the right time.

Measures

- Deals with uncertainty
- Invites opinion and discussion prior to decision making in a timely and appropriate fashion
- Explains the rationale for decisions
- Influences decisions of stakeholders by offering analyses and interpretations
- Communicates the decision and intent clearly
- Reviews decisions and changes decisions according to new facts
- Reflects on past situations to improve decision processes

6.4.6 Teamwork

Definition: Teamwork is about bringing people together to realise a common objective. Teams are groups of people working together to realise specific objectives. Portfolio teams are commonly multi-disciplinary; specialists in different disciplines work together to realise complex outcomes. Teamwork is about building a productive team by forming, supporting and leading the team. Team communication and team relations are among the most important aspects of successful teamwork.

Purpose: The purpose of this competence element is to enable the professional or practitioner to select the right team members, promote a team orientation, and effectively manage a team.

Description: Teamwork covers the complete life cycle of teams. It starts with the initial phase of selecting the right team members. After that, the team has to be built, supported and steered. During the various phases of the portfolio, as the team members and the team as a whole acquire more maturity in their respective tasks, they can perform these tasks more independently and consequently are given more responsibility.

Team building is often done by the use of meetings, workshops and seminars that may include the professional or practitioner leading the portfolio, team members and sometimes other interested parties. Team spirit (i.e. getting people to work well together) can be achieved through professional or practitioner motivation, team goal setting, social events, supporting strategies and others.

Problems may arise due to technical or economic difficulties or other kinds of stressful situations. Issues may also arise due to cultural and educational differences, different interests and/or ways of working, or members being located great distances apart. The professional or practitioner leading the team needs to continually develop the team and its members throughout the life cycle of the portfolio. During their time working for the portfolio, the performance of team members should be regularly reviewed by the

professional or practitioner leading the team in consultation with the line manager, to assess and respond to development, coaching and training needs. Where the performance of a team member is below the required standard, remedial action may be necessary.

Throughout the life of a team, personal involvement should be encouraged, networking stimulated, a productive work environment facilitated and communication and relationships supported.

Knowledge

- Project, programme and portfolio organisation
- Team role models
- Team lifecycle models

Skills

- Recruiting and personnel selection skills
- Interview techniques
- Building and maintaining relationships
- Facilitation skills

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 5: Organisation and information
- Practice 8: Resources
- Practice 10: Plan and control

Key Competence Indicators

6.4.6.1 Select and build the team

Description: To ensure successful teamwork, the right resources for the team have to be selected. Apart from ensuring that they have the necessary knowledge and skills, the professional or practitioner leading the team also has to take care that the selected team members have the right 'chemistry' to be able to work together as a team. Before the chosen team can start performing, the professional or practitioners have to generate an understanding of themselves as a team. The role of the professional or practitioner leading the team is to translate professional or practitioner motivation into team performance. The members have to be enabled to learn about each other and the tasks they are facing. Team building is a continuous task, but as the team matures the necessary activities for the professional or practitioner leading the team change accordingly.

Measures

- Considers professional or practitioner competences, strengths, weaknesses and motivation when deciding on team inclusion, roles and tasks
- Clarifies objectives and creates a common vision
- Sets the team objectives, agenda, and completion criteria
- Negotiates common team norms and rules

- Motivates professional or practitioners and builds team awareness

6.4.6.2 Promote cooperation and networking between team members

Description: Stimulating cooperation means actively influencing team participants to work together and contribute with their experience, knowledge, opinions, ideas and concerns, for the sake of the agreed objectives. Discussions and disagreements are an unavoidable consequence of this, but as long as the professional or practitioner leading the team makes sure that a productive and respectful atmosphere is maintained, team members can expect that conflict will lead to better performance. Whenever professional or practitioner team members set out to disrupt cooperation by playing a divisive or counterproductive role, the professional or practitioner leading the team needs to address this by correcting, and, in extreme cases, replacing the team member. The team leader can stimulate networking through physical and virtual activities where team members share their knowledge and motivate and inspire each other.

Measures

- Creates opportunities for team member discussions
- Asks for opinions, suggestions and concerns from team members in order to improve performance
- Shares successes with the team(s)
- Promotes cooperation with people both within and outside the team
- Takes appropriate action when team cooperation is threatened
- Uses tools for collaboration

6.4.6.3 Support, facilitate and review the development of the team and its members

Description: Team development involves continuously developing the team, encouraging members to gain new knowledge and skills. The role of the professional or practitioner leading the team is to support, enable and review these learning efforts as well as creating opportunities to share knowledge between team members, other teams and the organisation outside the portfolio.

Measures

- Promotes continuous learning and knowledge sharing
- Uses techniques to engage in development (e.g. on-the-job training)
- Provides opportunities for seminars and workshops (on- and off-the-job)
- Plans and promotes 'lessons learned' sessions
- Provides time and opportunity for self-development of team members

6.4.6.4 Empower teams by delegating tasks and responsibilities

Description: Responsibility creates involvement. The professional or practitioner leading the team increases involvement and professional or practitioner and collective empowerment – by delegating tasks and problems to teams or team members. Dependent on their task maturity, delegated tasks can be big, challenging and important. The output of delegated tasks to professional or practitioners and teams should be measured, with feedback cycles for the team to ensure learning occurs.

Measures

- Delegates tasks when and where appropriate
- Empowers people and teams by delegating responsibility
- Clarifies performance criteria and expectations

- Provides reporting structures at team level
- Provides professional or practitioner and team feedback sessions

6.4.6.5 Recognise errors to facilitate learning from mistakes

Description: The professional or practitioner leading the team makes sure that the effect of errors and mistakes on the outcomes, processes and success of the portfolio are kept to a minimum. The professional or practitioner is aware that mistakes can always happen and understands and accepts that people make errors. The professional or practitioner analyses mistakes and facilitates learning from mistakes. Errors and mistakes are used as a platform for change and improvement so that there is less chance of future errors.

In some cases, the professional or practitioner leading the team can even promote behaviour that increases the chance of errors, if the portfolio needs innovative ways to overcome problems and difficulties. Even then, the professional or practitioner leading the team ensures that the final outcomes, processes and portfolio success are not affected negatively. The professional or practitioner seeks root-causes for mistakes and takes effective action to ensure that the same mistakes do not occur again.

Measures

- As far as possible, avoids negative effects of errors on portfolio success
- Realises that mistakes happen and accept that people make errors
- Shows tolerance for mistakes
- Analyses and discusses mistakes to determine improvements in processes
- Helps team members to learn from their mistakes

6.4.7 Conflict and Crisis

Definition: Conflict and crisis includes moderating or solving conflicts and crises by being observant of the environment, and noticing and delivering a remedy for disagreements. Conflicts and crises may include events and situations, character conflicts, stress levels and other potential dangers. The professional or practitioner must handle these scenarios appropriately and stimulate a learning process for future conflicts and crises.

Purpose: The purpose of this competence element is to enable the professional or practitioner to take effective action when a crisis or clash of opposing interests/incompatible personalities occurs.

Description: Conflicts may occur between two or more people and/or parties. Very often, a conflict erodes a good working environment and may result in a negative effect for the parties involved. A crisis may be the outgrowth of a conflict, or it may be the result of a sudden, abrupt or decisive change in a situation that threatens to thwart the realisation of the goals of the portfolio, either direct or indirect. At such times, a rapid response is required and skilled judgment needs to be applied to assess the crisis, define scenarios to solve the crisis and secure the portfolio and to decide whether to escalate the issue and how high this needs to go in the organisation.

The ability to identify potential conflicts and crises and to react accordingly needs an understanding of the fundamental mechanisms. The professional or practitioner can use a variety of means for reacting to potential or actual conflict and crisis, for example collaboration, compromise, prevention, persuasion, escalation or the use of power. Each depends on achieving a balance between interests. Transparency and integrity shown by the professional or practitioner, acting as an intermediary between parties in

conflict, will help in finding acceptable solutions. However, sometimes conflicts cannot be solved from within the team or the portfolio but only by calling in independent mediating or deciding parties.

Knowledge

- De-escalation techniques
- Creativity techniques
- Moderation techniques
- Scenario techniques
- Conflict stage models
- Value of conflicts in team building
- Crisis plan
- Worst case scenarios

Skills

- Diplomatic skills
- Negotiation skills, finding a compromise
- Moderation skills
- Persuasiveness
- Rhetorical skills
- Analytical skills
- Stress resistance

Related competence elements

- All other people CEs
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- Practice 8: Resources
- Practice 10: Plan and control
- Practice 11: Risk and opportunity

Key Competence Indicators

6.4.7.1 Anticipate and possibly prevent conflicts and crises

Description: To be aware of potential conflicts and crises means being alert and observant of situations that might lead to disagreements. Possible conflicts are ideally identified and prevented or tackled at an early stage, before they expand. Prevention includes pre-empting conflict topics, keeping team members with conflicting characters or interests in separate teams and/or delegating conflict sensitive items to specific people. Stress is a very likely factor in potential conflicts or crises, as people tend to get irritable under pressure. The professional or practitioner leading the team should therefore be able to recognise, assess and reduce professional or practitioner stress levels.

Measures

- Analyses potentially stressful situations
- Keeps conflicting characters or interests in separate tasks/teams
- Delegates conflict-sensitive items to specific people
- Implements preventive measures
- Takes stress-reducing measures

- Reflects on stressful situations in a team

6.4.7.2 Analyse the causes and consequences of conflicts and crises and select appropriate response(s)

Description: Conflicts pass through various stages, as defined by several theories. These stages can be summarised in three broad categories:

- **Latent (potential, slumbering, but not yet visible or acknowledged).** This exists whenever professional or practitioners or groups have differences that bother one or the other, but the differences are not great enough to cause one side to act to alter the situation
- **Emergent (visible but still rational).** This may happen when a 'triggering event' happens, for instance an open disagreement on a topic. This topic is either the real cause of the conflict, or a pretext for another conflict of interest or character. When the conflict is emergent, the involved parties are still on speaking terms and can discuss rational solutions.
- **Escalated (open conflict).** In this phase the parties are openly and emotionally at odds with each other and are not able or willing any more to discuss solutions calmly and rationally. Other people are tending to take sides, or they are or urged to. In some situations legal steps may be taken or considered.

Crises, by contrast, jump immediately to the third level without acknowledged intermediary steps. However, they are often not the result of conflict situations, but may arise because of a sudden or suddenly discovered issue – a major risk occurring, an outside event with great impact, etc. The art of conflict and crisis management is to assess causes and consequences and obtain additional information for use in the decision making process to define possible solutions.

Conflicts and crises can have very different causes, varying from factual disagreements to character conflicts, and they may have origins that are external to the portfolio or even the organisation. Depending on the causes, different solutions may be possible. Crises can also be differentiated by their potential impacts. Depending on the specific stage, different approaches to soothe, solve or escalate the conflict or crisis can be chosen.

Measures

- Assesses conflict stage
- Analyses causes of a conflict or crisis
- Analyses potential impact of a conflict or crisis
- Has different conflict or crisis approaches available to choose from

6.4.7.3 Mediate and resolve conflicts and crises and/or their impact

Description: Often conflict or crisis management has to be performed against a background of professional or practitioners and/or groups who are angry or in panic mode. In a minimum amount of time, the professional or practitioner has to pull the information together, weigh the options, aim for a positive and preferably synergistic solution and, most important, stay calm and in control. In these circumstances, relaxation and balanced judgment are important qualities. In situations of crisis the ability to act decisively is most important.

The potential means of resolving conflicts involve collaboration, compromise, prevention or use of power. Each depends on achieving a balance between one's own and others' interests. Co-operative conflict management requires willingness to compromise among all parties. At early stages of conflicts the professional or practitioner can act as a moderator/mediator at least when the professional or practitioner is not directly involved. The professional or practitioner brings the conflicting parties together and enables communication without being too judgmental. In later stages the options may include use of power, escalation to higher management, professional mediation and/or legal measures.

Measures

- Addresses issues openly
- Creates an atmosphere of constructive debate
- Selects and uses the right method to solve the conflict or crisis
- Takes disciplinary or legal measures when appropriate

6.4.7.4 Identify and share learning from conflicts and crises in order to improve future practice

Description: Once a conflict has been resolved, it is important to restore a sense of harmony and equilibrium to the environment. Stimulating learning from conflicts and crises means the professional or practitioner leading the team of the portfolio can question the origins and causes of a conflict on a metalevel. Furthermore the professional or practitioner can differentiate between environmental coincidences and true causes of a conflict or crisis, learn from them and encourage the team to do the same, so that they cope better with similar situations in the future.

Measures

- Restores the team environment
- Motivates the team to acknowledge and learn from their own part in the conflict
- Uses conflicts in a positive way to progress
- Strengthens the team cohesion and solidity with regard to potential future conflicts and crises

6.4.8 Resourcefulness

Definition: Resourcefulness is the ability to apply various techniques and ways of thinking to defining, analysing, prioritising, finding alternatives for and dealing with or solving challenges and problems. It often requires thinking and acting in original and imaginative ways and stimulating the creativity of professional or practitioners and the collective creativity of the team. Resourcefulness is useful when risks, opportunities, problems and difficult situations arise.

Purpose: The purpose of this competence element is to enable the professional or practitioner to effectively handle uncertainty, problems, changes, limitations and stressful situations by systematically and continuously searching for new, better and more effective approaches and/or solutions.

Description: Resourcefulness is about making optimal use of what to work with. It is not just about creating something new; it also applies to making existing things work better, faster or cheaper. The professional or practitioner acquires capable resources and foster an attitude of resourcefulness within the team to stimulate, evaluate and act upon ideas that can benefit the process, results or goals. Ideas must often be 'sold' to the team before they are accepted. A team atmosphere that is open to creativity and innovation is a prerequisite for acceptance. Others in the team will then often champion the idea and refine it so that it gains greater acceptance.

Resourcefulness is one of the prime competences for portfolio success. Resourcefulness helps to overcome problems and motivates the team to work together in developing the idea into a workable solution. Creativity must be used with care in the team, so that the focus on realising the agreed results of the project, programme or portfolio is not lost. Conceptual and analytic techniques are also of utmost importance to deal with the information overflow that many portfolios and organisations face. Being able to extract, present or report the right information in a timely manner is crucial for success.

Knowledge

- Techniques to solicit views of others
- Conceptual thinking
- Abstraction techniques
- Strategic thinking methods
- Analytic techniques
- Convergent and divergent thinking
- Creativity methods
- Innovation processes and techniques
- Coping methods
- Lateral thinking
- Systems thinking
- Synergy and holistic thinking
- Scenario analysis
- SWOT technique
- PESTLE analysis
- Creativity theories
- Brainstorming techniques, e.g. lateral thinking
- Converging techniques (comparative analysis, interview techniques)

Skills

- Analytical skills
- Facilitating discussions and group working sessions
- Choosing appropriate methods and techniques to communicate information
- Thinking 'outside the box' – new ways of doing things
- Imagining an unknown future state
- Being resilient
- Dealing with mistakes and failure
- Identifying and seeing different perspectives

Related competence elements

- All other people CEs
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 10: Plan and control
- Practice 11: Risk and opportunity

Key Competence Indicators

6.4.8.1 Stimulate and support an open and creative environment

Description: The professional or practitioner creates a work environment that encourages people to share their knowledge and contribute their ideas and opinions. To stimulate and support creativity and innovation, the professional or practitioner needs to be open to original and imaginative ways to overcome obstacles. These may include new products, processes or procedures or could involve revising specific tasks or roles and responsibilities. The professional or practitioner can make others feel they are welcome to express themselves, so that the portfolio can benefit from their input, suggestions, ideas and concerns.

This is necessary as a means of benefiting from others' knowledge and experience. Since in every portfolio, professionals with various backgrounds and abilities have to work together, openness is important. Most of the team members have an area of expertise where they are more knowledgeable than the professional or practitioner leading the portfolio. The relationships in the team are built on mutual respect, trust and reliability. So the professional or practitioner leading the portfolio should regularly ask people for their input and show willingness to understand and possibly adopt their ideas. Of course there is a time and place for everything, so the professional or practitioner should also make clear when there is time for creative input and when not.

Measures

- Encourages people to share their knowledge and contribute their opinions
- Stimulates and supports creativity when appropriate
- Uses and stimulates original and imaginative ways to overcome obstacles
- Seeks input from others and shows willingness to consider and/or adopt their ideas
- Considers the perspectives of others

6.4.8.2 Apply conceptual thinking to define situations and strategies

Description: Every portfolio is unique. This requires the abilities of abstraction and conceptualisation, that is, of breaking down or reducing the subject in question (be it an outcome, plan, requirement, risk, situation or problem) into smaller parts and integrating these into new and useable ideas. The professional or practitioner must apply conceptual thinking, and also leverage able team members. Conceptual thinking also means bearing in mind that problems regularly have multiple causes that relate to each other within a general context, and that different ways of solving problems have different effects on other parts, both in and outside the portfolio.

Measures

- Uses or promotes conceptual thinking when appropriate
- Knows that problems often have multiple causes and that solutions often have multiple effects
- Applies systemic thinking

6.4.8.3 Apply analytic techniques to analysing situations, financial and organisational data and trends

Description: The professional or practitioner leading the team of the portfolio is able to analyse (or delegate the analysis of) complex situations or problems and find solutions and alternatives. The professional or practitioner can also analyse and derive useful information and trends from complex sets of data and present or report the findings clearly. Analytical dexterity means having different methods at disposal for detecting a problem's actual causes and implementing or proposing the correct measures to solve it.

Measures

- Applies various analytic techniques
- Analyses problems to detect causes and possible solutions
- Analyses complex sets of data and extracts relevant information
- Clearly reports and presents data conclusions, summaries and trends

6.4.8.4 Promote and apply creative techniques to find alternatives and solutions

Description: Creative techniques should be used to identify solutions. These techniques can be divided into 'diverging' techniques and 'converging' techniques. When problems arise in the portfolio or in its components, the professional or practitioner leading the team needs to judge whether a creative approach is appropriate or not. Where a creative approach is appropriate, the professional or practitioner needs to decide which methods to use.

After the problem or issue is defined (possibly by using conceptual thinking and/or analytic techniques) there follows a diverging creative stage, to gather possible solutions. A brainstorming session may be appropriate, where members of the team and others in the organisation who might be able to contribute meet to have their ideas captured. Other much-used techniques include mind mapping, storyboarding, visualising, etc. Whatever method is used in finding a creative solution, it involves looking at the issue from different perspectives, combining tools, knowledge, common sense, intuition and experience and applying them.

In the following, more analytic, converging stage, possible solutions and their effect on the problem or issue in question are analysed. Converging techniques include weighted selection, force-field analysis, etc. The most promising ideas are then further refined and finally the best concepts/solutions are chosen.

Measures

- Uses creative techniques when appropriate
- Applies diverging techniques
- Applies converging techniques
- Engages multiple views and skills
- Identifies interdependencies

6.4.8.5 Promote a holistic view of the portfolio and its context to improve decision-making

Description: To promote holistic views means considering a current situation in relation to the full context of the portfolio, such as the enterprise strategies and concurrent activities, project or programmes. The professional or practitioner leading the team of the portfolio uses multiple perspectives to judge and deal with situations. The professional or practitioner recognises the significance of details and can separate the details from the bigger picture. The professional or practitioner understands the connection between the situation and its context and can make or promote decisions based on understanding of a wide array of influences, interests and possibilities. The professional or practitioners is also able to explain these holistic views to others, both inside and outside the portfolio.

Measures

- Demonstrates holistic thinking and can explain the bigger picture
- Uses multiple perspectives to analyse and deal with the current situation

- Makes connections between the portfolio and the larger context and takes appropriate action

6.4.9 Negotiation

Definition: Negotiation is the process between two or more parties that aims to balance different interests, needs and expectations in order to reach a common agreement and commitment while maintaining a positive working relationship. Negotiation includes both formal and informal processes such as buying, hiring or selling or regarding requirements, budget and resources in portfolios.

Purpose: The purpose of this competence element is to enable the professional or practitioner to reach satisfactory agreements with others by using negotiation techniques.

Description: Agreements are based on positions that will satisfy the interests, needs and expectations of all parties. Negotiations can be political or commercial, and can often entail reaching compromises that do not leave all parties very satisfied. Interests, needs and expectations often involve emotions and feelings as well as facts, and the full picture may not be easy to identify. The negotiating process is often influenced by the relative power of the parties, and by situational factors that may be called 'leverage'. Negotiators need to research these issues and, when full information is not available, make assumptions about them. Successful negotiation is facilitated by developing a number of options, each of which has the potential to satisfy different interests, needs and expectations. Negotiation may involve the use of different techniques, tactics and strategies.

Knowledge

- Negotiation theories
- Negotiation techniques
- Negotiation tactics
- Phases in negotiations
- BATNA (best alternative to a negotiated agreement)
- Contract templates and types
- Legal and regulatory provisions associated with contracts and agreements
- Analysis of cultural aspects and tactics

Skills

- Identification of the desired outcomes
- Assertiveness and drive to reach desired outcomes
- Empathy
- Patience
- Persuasion
- Establishing and maintaining trust and positive working relationships

Related competence elements

- All other people CEs
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 9: Procurement
- Practice 10: Plan and control

Key Competence Indicators

6.4.9.1 Identify and analyse the interests of all parties involved in the negotiation

Description: Understanding the priorities of the parties to the negotiation is a prerequisite to generating a successful outcome. The professional or practitioner leading or participating in the negotiations should begin by gathering hard and soft information about interests, needs and expectations of all parties by whatever means are available. Analysis of this information should reveal both priorities and gaps for further research. Priorities of other parties may often have to be assumed.

Measures

- Knows and reflects own interests, needs and constraints
- Gathers and documents relevant hard and soft information about interests, needs and expectations of all parties involved
- Analyses and documents available information to identify own priorities and likely priorities for other parties

6.4.9.2 Develop and evaluate options and alternatives with the potential to meet the needs of all parties

Description: The professional or practitioner identifies trade-offs, options and alternative negotiation solutions. They are developed during the preparation for negotiation and may be modified during the negotiations as opportunities emerge and the situation changes. The trade-offs, options and alternatives should be tuned to the interests of the negotiating parties, to be useable during the negotiation process. A best alternative to a negotiated agreement (BATNA) should also be identified.

Measures

- Identifies trade-offs, options and alternative solutions based on the analysis of interests, needs and priorities of all parties
- Proposes the right option at the right time in the right way

6.4.9.3 Define a negotiation strategy in line with own objectives that is acceptable to all parties involved

Description: The negotiation strategy focus on what the professional or practitioner thinks is essential for a successful outcome. Before starting the negotiation, the professional or practitioner must select the strategy, techniques and tactics that will enable him or her to reach an optimal outcome for the portfolio. The strategy may depend upon factors such as the power balance between the parties, the stakes involved, budgetary conditions, politics, cultural aspects, and the capability of the negotiators. The selected strategy should be appropriate to the interests of the portfolio and not detrimental to relations with the stakeholders involved. The professional or practitioner should also consider secondary strategies that cover 'what if' scenarios.

The strategy also includes who the negotiators will be and what will be their mandate (negotiation scope, freedom, roles and responsibilities). In some cases a choice is also possible about the other party and/or negotiation scope (with whom to negotiate over what). This option should be carefully considered, as this choice might have negative or positive repercussions later on.

Measures

- Identifies possible negotiation strategies in order to achieve the desired outcome
- Identifies secondary strategies and alternative options to address 'what if' scenarios

- Selects a negotiation strategy and can explain why it has been chosen
- Analyses and selects negotiation techniques and tactics to support the desired negotiation strategy
- Identifies key parties to participate in the negotiation and clearly articulates their mandate

6.4.9.4 Reach negotiated agreements with other parties that are in line with own objectives

Description: An agreement is reached through negotiation using the identified strategies, tools and tactics with-out alienating the other parties involved. Negotiation may occur over an extended timeframe and may proceed in phases. A satisfactory agreement is one in which all parties are reasonably satisfied with the result, will honour their commitments, think the other parties negotiated fairly, and feel respected and will negotiate again. If an agreement is not achievable or the possible outcomes are not acceptable, the BATNA is implemented. The best possible solution is often one that is sustainable and provides the best long-term results for all parties. There may be specific situations where this is not possible or preferable and a compromise may be required to meet one's desired outcome. In many situations, the agreed out-comes are documented for future reference.

Measures

- Negotiates using techniques and tactics appropriate to the circumstances to achieve the desired outcome
- Negotiates to achieve a sustainable agreement
- Demonstrates patience and drive to realise a sustainable agreement
- Implements BATNA if a sustainable outcome is not possible
- Documents the outcomes of the negotiation

6.4.9.5 Detect and exploit additional selling and acquisition possibilities

Description: The professional or practitioner leading the portfolio is constantly striving to realise the processes and agreed outcomes faster, better and/or cheaper. This means that the professional or practitioner has to have a keen eye for opportunities to realise this aim. Depending on the situation, this may for instance mean searching for new suppliers or renegotiating old agreements, looking for ways to offer services to new clients, negotiating better conditions with stakeholders or inviting teams or team members to realise tasks sooner, better and/or cheaper.

Negotiating will occur after the new opportunities are identified. The desired state should be seen in the light of the best interests of the portfolio and the organisation. Is the organisation best served with the present situation or with efforts to improve it? In considering this, the professional or practitioner is aware that negotiations also take up time and effort and that present relations with negotiation partners may be affected.

Measures

- Seeks ways to deliver the agreed outcomes sooner, better and/or cheaper
- Weighs alternatives to the current situation and agreements
- Considers the impact of alternatives on current relations

6.4.10 Results Orientation

Definition: Results orientation is the critical focus maintained by the professional or practitioner on the outcomes of the port-folio. The professional or practitioner prioritises the means and resources to overcome problems, challenges and obstacles in order to obtain the optimum outcome for all the parties

involved. The results are continuously placed at the forefront of the discussion and the team drives toward these outcomes. One critical aspect of results orientation is productivity, which is measured as a combination of effectiveness and efficiency. The professional or practitioner needs to plan and deploy resources efficiently to realise the agreed results and be effective.

Purpose: The purpose of this competence element is to enable the professional or practitioner to focus on the agreed out-comes and drive towards making the portfolio a success.

Description: Most of the work in the life cycle of portfolios deals with the definition and management of tasks and the resolution of smaller or bigger problems. In this definition, choices have to be made repeatedly, about priorities, allocation, to-be-used techniques, etc. Results orientation eases these choices by defining a basic criterion: 'Will the present work realise the desired results or make the process faster, cheaper and/or better?'

Results orientation means focusing the attention of the professional or practitioner and the team on key objectives to obtain the optimum outcome for all the parties involved. The professional or practitioner has to ensure that the agreed outcomes satisfy the relevant stakeholders. This also applies to any changes agreed during the life cycle of the portfolio. While focusing his or her attention on the outcomes, the professional or practitioner still needs to maintain an awareness of and react to any ethical, legal or environmental issues that affect the portfolio. Results orientation also includes focusing the team and relevant stakeholders on delivering the requested outcomes, including identifying problems, using techniques to locate their causes and to find and implement solutions.

To deliver the outcomes required by and agreed with the relevant stakeholders, the professional or practitioner must find out what the different participants in the portfolio would like to get out of it for themselves. The professional or practitioner must manage the deployment and development of the team members taking their expectations into account.

Knowledge

- Organisation theories
- Efficiency principles
- Effectiveness principles
- Productivity principles

Skills

- Delegation
- Efficiency, effectiveness and productivity
- Entrepreneurship
- Integration of social, technical and environmental aspects
- Sensitivity to organisational do's and don'ts
- Management of expectations
- Identifying and assessing alternative options
- Combining helicopter view and attention to essential details
- Total benefit analysis

Related competence elements

- All other people CEs
- Perspective 1: Strategy
- Practice 1: Design
- Practice 2: Goals, objectives and benefits
- Practice 6: Quality
- Practice 10: Plan and control
- Practice 11: Risk and opportunity
- Practice 12: Stakeholders

Key Competence Indicators

6.4.10.1 Evaluate all decisions and actions against their impact on portfolio success and the objectives of the organisation

Description: In everything the professional or practitioner does, he or she is guided by the goal of the portfolio, which is to achieve success. This goal underpins all the professional or practitioner's decisions and actions. Every choice may have negative or positive repercussions later on, so it needs to be carefully considered. The professional or practitioner will judge new developments by the following criteria: 'Will this realise (or threaten) the objective or result, or make the process faster, cheaper and/or better, and so more of a success?'

Measures

- Considers the objectives and agreed outcomes of the portfolio as leading all actions
- Formulates own goals based on the objectives and outcomes
- Derives the strategy of the portfolio from the goals
- Judges all decisions and actions by their impact on the success of the portfolio

6.4.10.2 Balance needs and means to optimise outcomes and success

Description: Every choice entails allocating or denying means (resources, money, time, attention) to certain actions (tasks, decisions, questions, problems, etc.), based on perceived needs. In order to optimise means allocation the professional or practitioner must have a clear picture of the priorities of the portfolio. Based on that, the professional or practitioner must prioritise the various needs and balance the allocation of means based on the priorities. This may mean giving no attention or means (now) to perceived challenges or problems, as the professional or practitioners judges other needs to have more priority.

Measures

- Assesses and prioritises various needs
- Explains why certain actions get more priority
- Uses the results orientation as a means to say 'no' (and explain why)

6.4.10.3 Create and maintain a healthy, safe and productive working environment

Description: Ensuring a healthy, safe and productive working environment means providing the team with all means and limiting distractions for the team, so that they can focus on working efficiently. The professional or practitioner leading a portfolio acts as a filter and a buffer between the environment and the team members to absorb uncertainties and ambiguities that could disturb the progress and their results orientation. In addition, the professional or practitioner facilitates the team with the necessary infrastructure and resources.

Measures

- Shields the team from outside interference
- Creates healthy, safe and stable working conditions
- Provides a clear set of work for team members to operate on
- Provides the necessary resources and infrastructure

6.4.10.4 Promote and 'sell' the portfolio, its processes and outcomes

Description: The professional or practitioner often has to act as an ambassador and advocate for the portfolio, explaining the why, how and what (its objectives, approach, processes and agreed outcomes) to all concerned parties. The promotion reinforces the results orientation by making clear the outcomes and the need for the outcomes. This can be done by regular reporting and stakeholder engagement, but at least as often is achieved by formal and informal communication and marketing, varying from coffee-corner talks with team members to formal presentations. This marketing or 'selling' the portfolio is part and parcel of every communication made by the professional or practitioner leading it. The professional or practitioner preferably also invites team members, the owner(s) and others to join in the marketing effort.

Measures

- Defends and promotes the objectives, approach, processes and agreed outcomes
- Seeks openings and venues to promote the portfolio
- Invites others to join in with marketing the portfolio

6.4.10.5 Deliver results and get acceptance

Description: The litmus test of every professional or practitioner leading a portfolio is whether they can deliver, or realise what was promised, to get results. This quality requires a clear resource plan, planned outcomes, a strong belief in personal capacity and that of the team to overcome obstacles and problems, plus the overarching desire to deliver. The professional or practitioner knows that being effective is not the same as being efficient. Effectiveness is realising the planned goals (e.g. realising the agreed outcomes within agreed deadlines, budget, quality, etc.), while efficiency is doing so with the least necessary cost and time (measured, for instance, by comparing the planned number of people against actuals). Therefore the professional or practitioner needs to constantly search for means to realise the agreed results faster, cheaper or better. Finally, the professional or practitioner needs to be able to rally people to the cause while keeping to the planned level of productivity, knows what the professional or practitioner can and cannot do (and get away with) in a specific situation and organisation and what is politically appropriate.

Measures

- Differentiates the concepts of efficiency, effectiveness and productivity
- Plans and sustains planned levels of efficiency, effectiveness and productivity
- Demonstrates the ability to get things done
- Focuses on and shows continuous improvement
- Thinks in solutions, not in problems
- Overcomes resistance
- Recognises limitations to getting results and addresses these shortcomings

6.5 Practice

The competence area 'practice' deals with the core portfolio competences. It defines fourteen competences:

- Project design
- Requirements and objectives
- Scope
- Time
- Organisation and information
- Quality
- Finance
- Resources
- Procurement
- Plan and control
- Risk and opportunities
- Stakeholder
- Change and transformation
- Select and balance

6.5.1 Portfolio Design

Definition: Design describes how the demands, wishes and influences of the organisation(s) are interpreted and weighed by the professional or practitioner, and translated into a high-level design of the portfolio to ensure the highest probability of success. Derived from this outer context, design drafts how resources, funds, stakeholders' objectives, benefits and organisational change, risks and opportunities, governance, delivery, and priorities and urgency, are all considered in the way the portfolio is set up and laid out in a 'charcoal sketch', a blueprint or an overall architecture; and how the portfolio should be managed. Because all outer factors and success criteria (and/or the perceived relevance of these) often change over time, this design needs to be evaluated periodically and, if necessary, adjusted.

Purpose: The purpose of this competence element is to enable the professional or practitioner to successfully integrate all contextual and social aspects, and derive the most advantageous approach for a portfolio life cycle to ensure buy-in and success.

Description: Design addresses the development, implementation and maintenance of an approach that best serves the organisational objectives and takes into account all formal and informal factors that help or hinder the goals and the success or failure of the specific portfolio. Design includes taking into account the intent, governance, structures and processes, relevant standards and regulations, cultural aspects and personal and group interests in the organisation (or organisations) and the wider society. In selecting the choice for the approach, lessons learned from other portfolios within the organisation, the industry or from outside, and the specifics of this portfolio, also play an important role.

Design addresses a broad range of aspects, including governance and decision making, reporting and resources, as well as meeting standards and regulations, and complying with cultural norms and values (within the organisation and of the wider society). Aspects such as perceived benefits, motivation, team and stakeholder communication, etc. have also to be taken into account. Defining these objectives, factors and criteria distinctly and clearly is a major requirement from the outset and during the execution

of the portfolio. This activity results in a thoroughly situational high-level sketch that will later be translated into specific actions that should lead to success for the portfolio.

The chosen approach also includes the management and control philosophy. The architecture reflects rhythm, balance and commitment, and provides guidance to the component tasks and their place in the portfolio. It also takes into account the relationships between projects and programmes in the portfolio and where they are linked together to achieve a strategic objective of the organisation. The selection of the approach and the design activities have to be performed before jumping into planning, organising and executing the portfolio. Furthermore, during the portfolio's life cycle this chosen approach should be regularly 're-thought' and challenged, as circumstances change both from within the portfolio and from the larger context.

Knowledge

- Critical success factors
- Success criteria
- Lessons learned
- Benchmarking
- Complexity
- Project, programme and portfolio success
- Project, programme and portfolio management success
- Project, programme and portfolio management tools
- Leadership styles
- Knowledge management
- Strategy
- Performance management
- Specific methodologies related to the line of business and context
- Organisational models, e.g. contingency theory
- Theory of Change

Skills

- Contextual and value awareness
- Goal and objective setting
- System thinking
- Results orientation
- Improvements / incorporation of lessons learned
- Structure decomposition
- Analysis and synthesis

Related competence elements

- All other practice CEs
- All perspective CEs
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

6.5.1.1 Acknowledge, prioritise and review success criteria

Description: Success criteria are measures that stakeholders use to rate and judge the success of the portfolio. These criteria can be both formal and informal. Formal criteria address the stated outcomes of the portfolio. To achieve them within the agreed constraints (for example strategic goals, tactical and operational objectives) is one, but just one, part of success. Informal criteria by which interested parties evaluate the outcome or the performance are also important. These factors may include the true reasons why portfolio management is implemented, supported or thwarted. Success criteria also address the interaction with the larger context personal or group interests that are influenced by the management of the portfolio or its results. The professional or practitioner collects, acknowledges, prioritises and completes both formal and informal success criteria for the portfolio. Not only the formal criteria, but also the informal ones, need to be taken seriously by the professional or practitioner, as they will significantly influence the willingness of interested parties to support and cooperate with the portfolio and so directly influence its success. The success criteria play a crucial role in defining the approach.

Success factors are elements that professional or practitioners can incorporate to increase the likelihood of meeting the success criteria and achieving a successful outcome. These factors may be of very different sources and shapes; they vary from using (or avoiding) specific tools, methods or techniques, to selecting specific resources, organisation set-up, stages, reporting and communication means and styles, quality methods, etc. Over time, the relative importance of success factors and criteria may change, due to contextual or social aspects or the dynamics of the portfolio management itself. Therefore the professional or practitioner periodically checks and assesses the actuality and relative importance of the success criteria and when necessary makes due changes in the approach in order to attain success.

Measures

- Identifies, evaluates and prioritises influences from each of the five perspective aspects relevant for success
- Recognises and assesses both formal and informal influencing elements
- Evaluates and prioritises success criteria from each of the five perspective aspects
- Acknowledges and assesses both formal and informal success criteria
- Acknowledges and uses relevant success factors
- Performs periodic re-assessments of the relevance of success criteria and factors

6.5.1.2 Review, apply and exchange lessons learned from and with other portfolios

Description: Lessons learned are gathered from other portfolios (most often from the wider community, including research and benchmarks) and relevant lessons are applied in the portfolio. Periodically the professional or practitioner (with the team and relevant stakeholders) evaluates the approach and gathers lessons learned from the work performed in portfolio management, which then are shared within the man-agreement of the organisation and, as far as is practicable, to the world outside the organisation(s). In addition, the professional or practitioner makes sure that relevant lessons learned are gathered in the projects and programmes of the portfolio, shared between the different component projects and programmes and applied where appropriate. This is particularly important for component projects and pro-grammes in early phases, during the set-up. The professional or practitioner knows and uses the different ways and tools for distributing lessons learned in the organisation (strategic project office, knowledge base, internal social network, etc.).

Measures

- Acknowledges and gathers lessons learned from previous portfolio cycles
- Applies relevant lessons learned
- Acknowledges and uses research and benchmarking methods for improving the performance of the portfolio
- Identifies and shares lessons learned

6.5.2 Benefits

Definition: Every portfolio is undertaken because internal and external stakeholders want to achieve something. This competence element describes the 'why'- which goals are to be achieved, which benefits are to be realised, which objectives are to be reached, and which stakeholders' requirements are to be fulfilled. They are derived from needs, expectations, requirements and strategic organisational goals from the stakeholders.

Purpose: The purpose of this competence element is to enable the professional or practitioner to see the relationship between what stakeholders want to achieve and what the portfolio and components are going to accomplish.

Description: The professional or practitioner will come across many definitions of goals, objectives, benefits, effects, deliverables, value, requirements, output and outcome, and how they relate to each other. They all present different views of (and sometimes different levels of) the bridge between what stakeholders want to achieve and what a project or programme is going to deliver. The professional or practitioner is aware of this and will clearly define, for the purpose of the portfolio, what is needed in order to answer 'why-how-what-when-who-where-and-for-whom-...' questions. The professional or practitioner will embark on a process with all stakeholders to come to a good definition of what the portfolio and components are going to achieve for them. These then have to be transformed into clearly defined outcomes and outputs, which again are communicated back to stakeholders in order to define and manage expectations. This process is conducted iteratively.

Changes to both the stakeholders' views and the outputs and outcomes will occur, requiring regular updates. This process is therefore executed initially, and will be repeated on a regular basis. Communication, negotiation and analytical skills are crucial. In order to achieve balance between stakeholders, the use of workshops instead of one-on-one interviews is very common. Stakeholders' needs and requirements need to be elicited and prioritised, clearly defining what the portfolio will have to realise, and for what reasons.

In the case of portfolios, stakeholders' needs and requirements are elicited and prioritised. These then serve as input for the decision on which components are to be taken on by the organisation, given what it wants to achieve.

Benefits may be quantified as either financial or non-financial. Non-financial benefits are all the benefits that cannot be easily expressed as a monetary value. This might include improvements in customer satisfaction, increased consumer awareness or improved health.

Benefits may also be considered as tangible or non-tangible. Benefits are often tangible business improvements that support an organisation's strategic objective and are assured. What constitutes

benefits with positive value for some, might constitute benefits with negative value (sometimes called dis benefits) for others.

Balancing these so that the portfolio achieves outcomes that are beneficial for all stake-holders is one of the key aspects in portfolio management. A portfolio comprises projects and programmes, each of which delivers multiple capabilities and/or benefits with each deliverable or output from components making a contribution. As a result the development of a benefits map or chain (sometimes called a benefits breakdown structure) is often required, showing how each component contributes to achievement of the overall benefit detailed at the portfolio level.

Knowledge

- Temporary and permanent organisation
- Expectations, needs and requirements of stakeholders
- Success criteria
- Project and programme charters
- Project and programme sponsors (owners)
- Fit for use and fit for purpose
- Value management
- Acceptance criteria
- Benefits mapping
- Goal analysis
- Strategy setting

Skills

- Corporate strategy
- Stakeholder relations
- Knowledge elicitation
- Workshop facilitation
- Interviewing
- Formulation of objectives (e.g. SMART- method)
- Synthesis and prioritisation

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.2.1 Define and develop the organisational goals hierarchy

Description: A portfolio constantly measures whether the component projects and programmes are well balanced against what the organisation wants to achieve. These organisational goals are elic-ited

and priorities are established. If necessary, the organisational goals are further articulated to ensure they can be more easily measured, or sequenced over time into short-term goals and mid-term goals. These are communicated with the relevant stakeholders and a commitment is then established. The organisational goals and the contribution that the portfolio makes to achieving these may be re-assessed at each selection round. These may take place monthly, quarterly or annually.

Measures

- Defines a prioritised set of organisational goals for the portfolio
- Establishes a set of goals to be achieved in the shorter and longer term
- Achieves commitment on this set of goals
- Identifies key priorities for selection based on the organisation's goals

6.5.3 Scope

Definition: Scope defines the specific focus or content of the portfolio and component projects and programmes. It describes the outputs, outcomes and benefits and the work required to produce them. It also deals with the counterpart: describing what is not contained in or part of the portfolio. In essence, scope defines the boundaries of the portfolio. The interest from a portfolio management perspective is to ensure that scope configuration of all components is maintained and the portfolio remains balanced.

Purpose: The purpose of this competence element is to enable the professional or practitioner to acquire insight into what the boundaries of the portfolio scope are and to manage this scope; and to understand how scope influences (and is influenced by) decisions regarding the management and execution of the projects and programmes so that the portfolio remains balanced.

Description: Scope covers the process of understanding, defining and managing the specific contents of all portfolio components. Scope defines all boundaries – which are often crucial to understanding and making decisions about what is to be contained within the portfolio and what is not. In the case of portfolios, scope operates at two separate levels. The first is the portfolio level in which the portfolio scope is defined as a result of the project and programme selection process.

The second is at the project and programme level, in which case the scope covers the definition of the project or programme deliverables, the creation of a scope defining structure (work break-down structure) and, derived from this, the definition of work packages.

Scope also includes the development of scope configuration control to ensure and support the continuous management of the scope. Most portfolios operate in a dynamic environment and consequently scope will not be static. To ensure continuing relevance to the permanent organisation, a sustainable scope is maintained through ongoing monitoring and controlling of the needs, desires and expectations of (key) stakeholders.

Knowledge

- Configuration management
- Hierarchical and non-hierarchical structures
- Planning packages
- Scope definition (with exclusions)
- Scope creep

- Constraints
- Deliverable design and control methods
- Work breakdown structure (WBS)
- Product breakdown structure (PBS)
- Work packages
- WBS dictionary

Skills

- Scope configuration
- Prioritisation of projects and resources
- Defining a WBS
- Defining a PBS
- Using a WBS dictionary
- Agile portfolio scope management

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

6.5.3.1 Establish and maintain the scope of the portfolio

Description: The scope of a portfolio is defined by the projects and programmes in the portfolio. Every portfolio has a focus area, defined by management. This focus area can be defined in various ways; e.g. functionally (for instance all marketing projects or programmes); geographically (all projects or programmes for, in or related to a geographical area); or simply all projects or programmes of a department or organisation.

However, interfaces with other programmes or projects outside of the focus area may blur the scope borders of a portfolio. This includes consequences of portfolios outside of their focus area (e.g. of resource claims, effects of outcomes). The professional or practitioner has to be able to assess these consequences and to maintain the agreed scope of the portfolio.

Measures

Identifies and maintains the scope of the portfolio
 Assesses and manages the interfaces with other portfolios
 Adapts the scope when needed in order to remain effective

6.5.3.2 Control scope configuration of projects and programmes

Description: Scope configuration management helps minimise deficiencies, errors and unintended scope creep in component projects and programmes. Scope configuration management is meant to

ensure that the scope is aligned with agreed stakeholder needs and requirements. The component projects and programmes operate within a dynamic environment with many interfaces. Scope configuration management is often a continuous process. The portfolio management feeds scope changes into the portfolio balancing process. This may result in component projects and programmes being put on hold or cancelled.

Measures

- Assesses and manages the scope of component programmes and projects
- Defines roles and responsibilities related to scope configuration management
- Adapts the scope of projects or programmes when needed in order to remain effective

6.5.4 Time

Definition: Time includes the identification and structuring of all components of a portfolio (projects and programmes) in time in order to optimise the execution.

Purpose: The purpose of this competence element is to enable the professional or practitioner to define, sequence, optimise, monitor and control all components necessary to delivering the agreed results of the projects and programmes within the portfolio.

Description: The aim of time scheduling is to determine what activities need to be carried out when, in order to optimise the execution. Given that portfolios are aligned to achieve strategic organisational goals, therefore the portfolio component timing is based on short- and long-term goals and given a time period to achieve them. A portfolio schedule contains the key milestones and dependencies of all projects and programmes within the portfolio.

Knowledge

- Planning approaches
- Estimation methods and techniques
- Resource levelling
- Scheduling methods, e.g. Gantt chart, PERT, Kanban charts
- Resource allocation
- Network analysis
- Baselines
- Critical path planning
- Time boxing
- Phases
- Milestones
- Fast modelling and prototyping
- Spiral, iterative and agile development processes

Skills

- Defining activities from work packages
- Defining dependencies
- Sequencing components
- Estimating activity resources and duration

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.4.1 Establishes the portfolio decision-making cycle

Description: The management of a portfolio and all related project and programme selection processes operate on a regular cycle of meetings and decision points. This selection cycle may occur monthly, quarterly or annually, often in line with the corporate planning cycle. The component projects and programmes may be delivered over the coming year, perhaps with a forward view of several years, depending on the type of business or organisation. The portfolio will also have review points during the current delivery cycle to ensure that the overall portfolio of projects is on track, that resources are properly allocated and to allow remedial action to be taken when necessary.

Measures

- Determines and applies the portfolio decision making cycle
- Connects portfolio management with the meeting routine
- Identifies key decision points for component projects and programmes
- Identifies and manages dependencies between all component projects and programmes

6.5.5 Organisation and Information

Definition: Organisation and Information includes the definition, implementation and management of the temporary project or programme organisation, and of the permanent organisation of the portfolio. Clear and commonly agreed to boundary descriptions between the permanent and the temporary organisations are important. Organisation and information also includes the definitions of required roles and responsibilities as well as effective information exchange for the temporary or permanent organisation. This competence element encompasses the creation and storage of documentation, reporting structures and the general project, programme or project portfolio internal communication flows.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure a high performing temporary (project or programme) or permanent (portfolio) organisation which also includes the inseparable link between organisational structure and communication processes.

Description: Projects and programmes are temporary, while the portfolio exists as a permanent function established within an existing organisation to carry out a dedicated assignment. One goal of a temporary organisation is to complete the assignments and deliver the anticipated results. Another goal of the temporary organisation is to achieve the larger purpose of the project or programme and to ensure the success of the portfolio. The permanent portfolio organisation analyses and collectively manages current and proposed components based on numerous characteristics to best achieve an organisation's operational and financial goals. For a portfolio, goals are set on an iterative basis and do not end at a predefined state.

The organisation and information competence embraces both human resources and associated communication processes. Moreover, the organisation covers roles represented by tasks, responsibilities and levels of authority within the organisation itself and between the organisation of the portfolio and the organisational entities in which the portfolio is embedded. Relationships and coalitions between members of the portfolio and stakeholders in the permanent organisation or the environment surrounding the portfolio are also part of the organisation and information competences. Internal information, documentation and communication are closely related to the management of the organisation and encompass identifying the information needs, establishing the required processes and information infrastructures and finally monitoring the internal and external information flow.

Knowledge

- Organisational models
- Decision models
- WBS as a base for project organisation
- Document management systems
- Information and documentation systems
- Information and communications planning
- Regulatory requirements
- Information security
- Project and programme governance arrangements

Skills

- Involving and convincing others
- Staffing of the organisation
- Task delegation techniques
- Management of interfaces to other parts of the organisation
- Use of office productivity software
- Preparation techniques for official documents
- Information management planning

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 3: Personal communication
- People 5: Leadership
- People 6: Teamwork
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.5.1 Assess and determine the needs of stakeholders relating to information and documentation

Description: The professional or practitioner knows about the close link between information and organisation, and that needs for information may also determine the need for specific organisational

structures. For example, in organisations practicing outsourcing with one or more virtual teams the need for a high level of information is evident. Care must be taken in deciding who gets what information overwhelming people with too much information must be avoided. Interested parties in general should receive only the information they need and in a suitable form. The professional or practitioner must discern the needs for formal and informal information or documentation. Knowing the corporate structures and processes will automatically outline part of the formal information and documentation (specifications, plans, budgets, reports and more). It is the responsibility of the professional or practitioner to ensure that the information and organisational needs are defined.

Measures

- Assesses and documents the information and documentation needs of the portfolio and component projects and programmes
- Establishes various modes of communication, including formal and informal
- Determines the characteristics of the portfolio and component projects and programmes influencing the organisational needs

6.5.5.2 Define the structure, roles and responsibilities within the portfolio and component projects and programmes

Description: The professional or practitioner can structure the permanent (portfolio) and temporary (project and programme) organisation in various ways and is aware of the influences from governance and contextual characteristics such as strategy, structures and processes, power and interest, standards and regulations, and culture and values. Applied technologies, anticipated solutions, required competences and the geographical location of the participant will also have a high impact on the design of the organisational structure. The professional or practitioner knows about the advantages and disadvantages of different structures and is also capable of designing, staffing and implementing the temporary organisation. If necessary, an appropriate governance framework and structure will be established for the portfolio as well as for all component projects and programmes. As part of this framework, roles and responsibilities are clearly defined and decision making authorities and delegation levels are also identified.

Measures

- Explains some fundamental ways to structure a permanent (portfolio) organisation
- Explains how the permanent (portfolio) organisation interacts with the temporary (project and programme) organisation
- Designs and develops governance framework and structure
- Defines the responsibilities of the various key personnel for the portfolio and all component projects and programmes
- Identifies links to and interfaces with corporate governance arrangements
- Identifies and records the differences between the organisation's functional authorities, and those of the portfolio and component projects and programmes

6.5.5.3 Establish infrastructure, processes and systems for information flow

Description: The professional or practitioner knows how to establish communication processes, including roles and responsibilities and all rules and guidelines for what internal information to communicate and how. Additionally, appropriate systems and methods are implemented to support the governance arrangements. How to limit and/or prevent redundant information is a key success criterion for establishing efficient information processes, and information must be consistent and unambiguous.

Information infrastructures cover the systems, means and methods required for documenting, storing and communicating the internal information. Information infrastructures and IT are inseparable in a modern organisation and, consequently, being aware of the corporate IT systems and policies is important for the professional or practitioner.

Measures

- Explains the purpose and contents of information processes
- Communicates internal information
- Ensures redundant information is limited and/or prevented
- Explains the benefits of different types of meetings
- Explains what is covered by an infrastructure for communication
- Establishes planning and control mechanisms (e.g. documentation of key decisions)

6.5.5.4 Implement, monitor and maintain the organisation of the portfolio and component projects and programmes

Description: The professional or practitioner knows how to manage the component's organisation, including implementation, monitoring and maintenance of all temporary organisations. Implementation means to make the initially defined organisational structure operational to make it work. However, implementation also includes changes to the organisation when necessary.

The need for changes to the temporary organisation should be anticipated as component projects and programmes evolve. Any given structure of an organisation is valid only for a limited period of time. In particular, changes in contextual factors (such as strategy and/or power and interest) tend to influence the temporary organisation and call for changes or minor adjustments. Through the ongoing monitoring of the environment, the professional or practitioner has to proactively envisage the need for changes to the temporary organisation.

Measures

- Implements new organisational structures to ensure efficient management of resources
- Monitors the organisation including the roles involved
- Adjusts the organisation including the roles involved

6.5.6 Quality

Definition: Quality in a portfolio context has two key drivers. On the one hand, it is about the quality of the process, the way in which the components are organised. This is about developing, implementing and reviewing standards for the way quality is addressed in components. On the other hand, quality is about managing, assuring and controlling the quality of the output and outcome of each component. Quality encompasses the entire portfolio.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish and manage the quality of the services/products to be delivered and the delivery process being managed; and to recognise quality as an invaluable tool for the benefits realisation management process.

Description: Quality in projects, programmes and portfolios is on the one hand about ensuring the right quality of (intermediate) services or products delivered (specific to projects). On the other hand it is about ensuring that quality processes are well implemented throughout the portfolios and its components. Ensuring quality processes are well implemented means setting a standard. Usually this is based upon what the organisations behind the portfolio, as sponsor or as supplier, have as quality methods, then tailored towards what this portfolio really needs, and subsequently implemented, measured and adapted. In a portfolio context the focus is on assuring that quality of outputs is achieved by all components.

Knowledge

- Verification and validation
- Process quality management techniques, such as Lean, Six Sigma, Kaizen
- Product quality management
- Quality management standards and methods such as TQM, EFQM, Theory of Constraints, Deming Cycle
- Organisational quality analysis tools
- Standard operating procedures
- Policies implementation
- Design for testing
- Utilising indicators
- Inspection methods and techniques
- Risk based testing
- Testing techniques, including, for example, automated testing
- Continuous integration
- Software application for handling and managing tests and defects

Skills

- Understanding quality management and its impact on portfolios and people
- Implementing a standard (process and people)
- Evolving and adapting a standard
- Correcting people's and group's behaviours with a wide variety of interventions
- Developing and executing quality plans
- Conducting quality assurance procedures
- Performing quality audits and interpreting their results
- Design of test plans

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 6: Teamwork
- People 8: Resourcefulness
- People 10: Results orientation

Key Competence Indicators

6.5.6.1 Ensure quality throughout portfolio component projects and programmes

Description: Based upon the quality procedures both of the organisations and the suppliers, a quality approach for the portfolio is chosen and implemented throughout all component project and programmes. It should be fit for purpose, and implementable with relative ease. Adaptation, integration and implementation will require dealing with several organisations (or parts of organisations), who all prefer doing it their own way. Once implemented, regular check-ups and improvements need to take place, to maintain the fitness for purpose. Since quality is about people, not just about processes, special attention should be paid to quality awareness.

Measures

- Assesses, adapts and integrates quality standards being used by organisations
- Implements quality processes in the portfolio and all component projects and programmes
- Conducts regular assessments of the implemented processes and improves them when needed.
- Implements quality awareness in the portfolio and each component project and programme, so that everyone involved knows what quality is required.
- Conducts regular assessments of the quality awareness and takes corrective action when needed

6.5.7 Finance

Definition: Finance includes all activities required for estimating, planning, gaining, spending and controlling financial resources, both the inflow and outflow, for the portfolio and all components. Finance therefore includes the cost management (outflow often related to a budget) as well as the financing (inflow external to the organisation) and/or funding (inflow from within the organisation) required for the achievement of portfolio outcomes as well as the successful completion of all components.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure that enough financial resources are provided to the portfolio and all components at any time, that the financial targets of all components can be met and that the financial status is monitored, reported and properly used for adequate management of the financial resources.

Description: Initially the professional or practitioner has to make an estimate of the costs that are necessary to execute the portfolio – i.e. define the available budgets. The professional or practitioner also has to take actions relating to the way the projects, programmes and portfolios are financed or funded. Therefore the professional or practitioner has to know what the planned (or expected) and actual costs of the projects and programmes are and how they relate to the progress of the work done and the objectives achieved.

In addition, cost management systems have to be established within the organisation of the portfolio. These are used to monitor the financial status and provide a forecast on financial and performance issues so the professional or practitioner can make appropriate decisions.

The professional or practitioner needs to know what funding is contracted and what funding is expected. In this way, the professional or practitioner can use the performance indicators to make forecasts of the future performance of the portfolio and, if cost breaches are signalled, reports according to the portfolio's organisation and governance, and suggest appropriate mitigation plans. The term 'funding' is used when

an organisation finances the portfolio internally; the term 'financing' is used when the organisation acquires funds for the portfolio from external sources, e.g. loans, joint ventures, etc. For the portfolio and each component project and programme, the proper management of cash flow in terms of expenditure and income is crucial.

The cash inflows and outflows must be calculated and evaluated regularly so the appropriate actions can be taken to ensure sufficient financial resources. The set-up of the financial management system has to be made in co-operation with the financial and/or treasury department and the other relevant parts of the permanent organisation.

Knowledge

- Financial accounting basics (cash flow, chart of accounts, cost structures)
- Cost estimating methods (single or multi-expert estimations (Delphi method), historical data, analogies, effort models, parametric estimations (function point method), three point estimation)
- Cost calculation techniques (e.g. direct, indirect calculation, activity-based costing)
- Design-to-cost/target costing
- Processes and governance for cost management
- Methods for monitoring and controlling expenditures
- Performance indicators (earned value)
- Reporting standards
- Forecasting methods (linear, parametric, scrum velocity analysis)
- Financing options
- Funding sources
- Financial management concepts and terms such as (but not limited to) cash flow, debt-asset ratio, return on investment, rates of return
- Contingency approaches
- Relevant conventions, agreements, legislation and regulations, including (but not limited to) taxation, currency exchange, bilateral or regional trade agreements, international commercial terms, World Trade Organisation determinations

Skills

- Analytical skills
- Convincing and negotiating with sponsors
- Scenario techniques
- Interpreting and communicating the actual cost situation
- Developing financial forecasts and models
- Writing skills
- Presentation skills
- Reading financial statements
- Interpreting financial data and identifying trends
- Financial management approach analysis
- Developing a portfolio budget
- Setting frameworks for resource portfolio cost estimation
- Directing and authorising cost strategies and cost management plans
- Developing and maintaining cost management systems
- Conducting analysis, evaluating options and implementing responses to project or programme cost variations

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation
- People 10: Results orientation

Key Competence Indicators

6.5.7.1 Determine and establish the portfolio budget

Description: Based upon the components running under the portfolio, and the activities that are planned and executed by the portfolio organisation itself, a periodic (usually annual) budget of the portfolio is determined. The budget and the assumptions that underpin it are monitored regularly, on the one hand to deal with changes within the projects and programmes, and on the other hand to harden assumptions, thereby enabling the professional or practitioner to reduce slack budget.

Measures

- Determines the portfolio budget for the respective time-frame (e.g. annual, bi-annual etc.)
- Develops budget scenarios based on the current and future components
- Monitors the performance of the budget spending

6.5.7.2 Develop, establish and govern a financial performance and reporting system for the portfolio

Description: A financial governance system has to be established, maintained or developed to ensure an overview of the financial situation and the financial performance of the portfolio is available at any time. The professional or practitioners must make sure the every project and programme running under the respective portfolio either uses mandatory financial methods and instruments to monitor, control and report the financial performance or adapts to the specific needs of the portfolio. The professional or practitioner must also make sure that each component has been granted by the organisational approval processes (if in place). Furthermore, the professional or practitioner should establish, maintain, further develop and govern performance management indicators to monitor the relations between projects and programmes (e.g. earned value or critical chain reporting). The performance management system should be closely linked to organisational accounting and controlling processes.

Measures

- Defines and maintains governance of the portfolio for financial management
- Disseminates financial performance indicators on to the lower levels
- Integrates the financial performance indicators with the permanent organisation structure and processes
- Develops appropriate reports standards for reporting, monitoring and decision taking

6.5.8 Resources

Definition: The resources competence element includes defining, acquiring, controlling and developing the resources that are necessary to realising the portfolio's outcomes. Resources include people,

expertise, facilities, equipment, materials, infrastructure, tools and other assets required to carry out the activities according to the objectives. This competence element includes defining a strategy for acquiring and utilising the resources for the best performance of the portfolio, optimising the utilisation of the resources given the time and financial constraints, and the continuous monitoring and control of these.

Purpose: The purpose of this competence element is to enable the professional or practitioner to ensure that the resources required are available and assigned as needed in order to meet the objectives.

Description: To realise its objectives, the projects and programmes in a portfolio need resources. Managing resources means applying a proper approach to defining and obtaining these resources. Resource allocation must be prepared during the planning phase and should be continuously monitored and adjusted throughout the whole life cycle of the components of the portfolio. The professional or practitioner makes sure that the human resources have the necessary competences and that they are provided with adequate information, tools and training to perform the required tasks successfully. Since resource needs and availability change regularly, for both controllable and uncontrollable reasons, resourcing is a continuous or regular process.

The availability of resources is the largest constraint in projects and programmes and must be considered as part of the portfolio, not only at the time of selection but also on an ongoing basis. To do so, project and programme resource forecasts are developed and compared with the current resourcing levels in the organisation. A portfolio resource strategy is identified based on trends, forecasts and current capacity. Subsequent plans are developed to ensure the components have the resources needed when they are required. Where gaps exist, hiring of new staff or external parties (e.g. contractors or consultants) may be required.

Knowledge

- Resource allocation methods
- Resource assessment
- Resource utilisation calculations and collection techniques
- Strategic human resource management
- Procurement processes
- Supply and demand concepts
- Competence management
- Workforce planning
- Training

Skills

- Resource planning, allocation and management
- Developing a portfolio resource forecast
- Developing a portfolio-wide skills matrix showing current resources and their skills
- Prioritising and allocating resources, given multiple competing priorities

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values

- People 5: Leadership
- People 6: Teamwork
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.8.1 Develop strategic resource plan to deliver portfolio component projects and programmes

Description: The strategic resource plan stipulates who is responsible for which part of the resource definition, resource allocation, resource development, resource distribution and resource freeing. Responsibilities may lie with the constituent organisations, with resource managers or with the component. The strategic resource plan needs to be in line with the schedule. The professional or practitioner develops, organises and assesses a plan and adapts it to changes whenever needed.

Measures

- Identifies project and programme resource requirements based on resource forecasts
- Captures baseline of existing and proposed resources
- Reviews and analyses the resource capacity of the organisation and identifies trends
- Develops a portfolio resource strategy to inform component project and programme resource plans
- Coordinates with portfolio management processes

6.5.8.2 Identify the quantity of required and available resources for running portfolio component projects and programmes

Description: The required and available numbers of project and programme staff are identified and any gaps between the resource demands and resource supply are determined. A plan is put into place to ensure all projects and programmes within the portfolio are appropriately resourced to deliver within their planned schedule.

Measures

- Captures and maintains human resource availability and utilisation information
- Assesses human resource deficiencies and strengths and integrates these into the organisational workforce development plans
- Identifies and investigates resource gaps and conflicts

6.5.8.3 Identify the skills of the required resources for running portfolio component projects and programmes

Description: The skills and experience of all project and programme members is assessed to determine the current state. The needs of the portfolio are assessed and gaps between the current and required skills and experience are identified. Plans are developed to resolve these gaps. Strategies might include use of consultants or contractors, training, coaching and mentoring or taking on new staff.

Measures

- Captures and maintains skill sets and experience
- Develops and implements plans to resolve the identified resource constraints and skills gaps

6.5.9 Procurement

Definition: Procurement is a process of buying or obtaining goods and/or services from external parties. It includes all processes, from purchase planning to making the purchase and contract administration. Because procurement focuses on the suppliers outside the parent organisation, it procures resources (people, tools, material, and sub-deliverables) that are not available from within the organisation. This competence element also includes choosing or taking the optimal procurement routes, which should fit the long-term objective of the client but also the organisation (e.g. partnership, joint ventures, etc.). These routes can mean sharing funding, expertise, etc., but also entail the risks of failing on the market.

Purpose: The purpose of this competence element is to enable the professional or practitioner to obtain the best value possible from the chosen suppliers or partners, and thus deliver the best value for the buyer and the organisation.

Description: The process of procurement enables organisations to acquire the necessary resources that these organisations do not possess or produce themselves (at least, in the amounts needed). Organisations' procurement policies are often imposed top-down. When procurement aspects involve a substantial portion of a programme, or when there are multiple procurement items, the procurement approach should be documented in a procurement plan covering at least:

- Types of contracts to be used
- Roles and responsibilities
- Supplier selection procedures
- Subcontracting rules

The management of procurement is either performed by professional or practitioners assigned to component projects, delegated to specialists or departments (e.g. legal department, financial department), directed by the programme level responsible for organisation-wide procurement and strategic partnerships, or even influenced by the portfolio level itself. Strategic considerations such as sustainability, lifecycle costs and reduced overhead from the development of positive relationships with suppliers, partners or buyers, and the risks connected with them, must also be taken into account. For each item to be acquired, the basic process includes defining needs, identifying potential suppliers or partners, obtaining technical and financial proposals, selecting a preferred supplier or partner and negotiating an agreement with the preferred supplier, making the purchase and contract administration. The inventory, disposals and other relevant functions are often considered as indirect procurement. The amount of effort devoted to each step should correspond to the size and complexity of the item being procured.

An exchange of goods or services between units of the same legal entity may sometimes be treated as procurement. In such cases, the procurement should be treated as if it were between independent parties and subjected to the same degree of control.

In the case of portfolios, one way of ensuring resources, in a network of stakeholders and organisations, is to develop formal partnerships, based on formal agreements. These partnerships are either existing (from strategic choices made by the organisation(s), or from previous cooperation), or have to be defined and organised as part of the portfolio.

Knowledge

- Sourcing strategies

- Make/buy analysis
- Supplier development methodologies
- Organisational procurement policies, procedures and practices
- Procurement methods (e.g. RFI, RFP, RFQ)
- Contract types (e.g. firm fixed price, time and materials, cost plus)
- Claim management processes, methods and tools
- Tender procedures and practices
- Contractual judicial knowledge
- Contractual terms and conditions
- Supply chain management

Skills

- Tactical know-how
- Presentation
- Contract administration

Related competence elements

- All other practice CEs
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 5: Culture and values
- People 4: Relations and engagement
- People 5: Leadership
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.9.1 Maintain and govern the procurement system for the portfolio

Description: The professional or practitioner must ensure that the portfolio organisation has integrity in procuring goods and services. Therefore, a procurement governance system has to be established that ensures that there is a complete overview of the procurement routes pursued within the portfolio at any time. The professional or practitioner must make sure that every project and programme running under the respective portfolio uses mandatory procurement methods and aligns with internal (i.e. organisation-tailored) and external rules (i.e. regulation). The professional or practitioner must also make sure that each component project and programme has been granted approval by the respective organisational function/processes. Although procurement often happens at project level and should be conducted by the project team, some procurement-related decisions may need to be taken at the portfolio level (e.g. making synergies within the portfolio by merging procurement routes). The professional or practitioner should implement a system that allows him or her to track and influence these decisions. Furthermore, the professional or practitioner maintains, develops and governs the procurement process by monitoring the obligations arising out of the projects and programmes (e.g. by defining starting and ending milestones and/or tasks for significant procurements within the portfolio).

Measures

- Defines and maintains governance of the portfolio procurement
- Controls the portfolio procurement routes against the internal and external rules

- Assesses the specifics of the procured goods and services and suggests partnership models (e.g. joint ventures, long-term partnerships, etc.)

6.5.10 Plan and Control

Definition: Based on the design, all elements come together in a balanced plan, the execution of which is controlled. The plan is of course regularly updated, based on changes happening within the portfolio, its components (projects and programmes) and/or its context. Control is also regularly adapted and improved, so that the professional or practitioner remains in control.

Purpose: The purpose of this competence element is to enable the professional or practitioner to establish and maintain a balanced and integrated view over the management of a portfolio. Maintaining the balance, consistency and performance is crucial in order to achieve the agreed outcomes.

Description: The plan and control competence is where all information comes together, and decisions are prepared or taken. Many processes and activities are described (and managed) in detail in the other competence elements. In this competence element they are viewed and managed in combination, as stipulated in the architecture document developed in design. The basic, cyclic process is: plan, execute, monitor, adjust plan or adjust execution.

The focus from a portfolio management point of view is on planning and monitoring. Information has to be acquired and combined, the organisation and its teams have to be selected, and choices have to be made. The professional or practitioner must determine how to plan and scale the portfolio management effort, and the way to manage the portfolio. This includes choosing the right management style, how much and what to delegate, etc. All this is laid down in one or more decision documents (vision, roadmap, plan, etc.) that need discussion and agreement.

Once the portfolio is established, monitoring processes need to be in place. These processes gather regularly information on progress, finances and utilisation of resources compared with baselines, adherence to quality and other standards, stakeholder satisfaction, etc. Regular reporting (both by lower levels to the portfolio manager and by the portfolio manager to stakeholders) is an essential part of the competences.

To support the continuous learning process, the performed management effort should also be evaluated on a regular basis. Based on this information, changes may be required. A predefined and transparent change management process is another essential element of portfolio control. At the orderly conclusion of every portfolio cycle, an evaluation should take place and a report is prepared stating the portfolio status, outcomes, success and lessons learned.

Knowledge

- Phase/stage transitions
- Reporting
- Portfolio office
- Deming cycle (plan-do-check-act)
- Request for change
- Management by objectives
- Management by exception
- Lessons learned report

- Phase/stage/sprint/release planning
- Request for change
- Decision to fund and make or buy
- Exception reports
- Issue reports
- Project and programme management plans
- Discharge
- Decision-making authority

Skills

- Progress control meetings
- Change management
- Reporting
- Negotiation of change requests
- Issue management
- Change management
- Earned value analysis
- Slip-charts

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.10.1 Establish the portfolio system

Description: In general, there are two ways portfolios are established. Bottom-up, by clustering already running component projects and programmes together and adding benefits steering to them. Also, some portfolios are created ‘top-down’, or by design. In that case, there is an analysis period in which the portfolio is created, based on projected goals and on an initial architecture. As part of the portfolio establishment, the required infrastructure must be established. This may include office space, technology infrastructure, a portfolio management or administration team and any supporting policies, procedures, tools or systems.

Measures

- Analyses the approach to creating a portfolio (bottom-up, top-down, combination)
- Identifies the (possible) component projects and programmes
- Identifies and develops the portfolio infrastructure
- Develops the portfolio control plan

6.5.10.2 Establish and maintain the portfolio cycle

Description: The professional or practitioner must determine how to plan and scale the portfolio management effort, and the way to manage the portfolio cycle. The portfolio needs to be regularly updated on the status and progress of component projects and programmes. Therefore, monitoring processes should be in place to gather information on a regular basis about progress, finances and the utilisation of resources, with the intention of comparing with baselines, adherence to quality and other standards, stakeholder satisfaction and the like. On top of that, a control plan to measure KPIs is developed and implemented.

In organisations that are accustomed to running portfolios, these basic elements are commonly laid down in manuals or portfolio-specific instructions. To support the continuous learning process, the performed management effort should also be evaluated on a regular basis. Based on this information, changes may be required. A predefined and transparent change management process is another essential element of project control. At the orderly conclusion of every portfolio cycle, an evaluation should take place and a report is prepared stating the portfolio status, out-comes, success and lessons learned.

Measures

- Organises the management and control of the portfolio process
- Defines the achievements for the following cycle(s)
- Manages the portfolio control cycle

6.5.10.3 Report on the Portfolio

Description: Regular reporting is an essential part of portfolio management. Reporting provides information and communication about the status of the portfolio in the current and previous phases, and forecasts developments for the current phase. Reporting includes both periodic verbal and written status updates and forecasts. Reporting also includes financial audits and reviews of the portfolio. Where the professional or practitioner and/or team are very experienced, it may be sufficient and acceptable for stakeholders to 'report only by exception'. This means only issuing a report when there is something significant that needs to be reported, rather than being monitored via regular status or update reports.

Measures

- Defines a reporting schedule and structure (what, when, how often, how, etc.)
- Periodically issues general progress reports
- Periodically issues general forecast reports

6.5.11 Risk and Opportunity

Definition: Risk and opportunity includes the identification, assessment, response planning and implementation and control of risks and opportunities around projects, programmes and portfolios. Risk and opportunity management helps decision makers to make informed choices, prioritise actions and distinguish among alternative courses of action. Risk and opportunity management is an ongoing process taking place during the lifecycle of the portfolio and is regularly reviewed at key portfolio decision points. Risk is also a key consideration as part of the selection process for projects and programmes.

Purpose: The purpose of this competence element is to enable the professional or practitioner to understand and effectively handle risks and opportunities, including responses and overall strategies.

Description: Risk (negative effects) and opportunity (positive effects) are always viewed in their relation to and consequences for realising the objectives of the portfolio. It is advisable as a first step to consider which overall strategies would best serve the handling of risks and opportunities relative to the corporate strategies and the portfolio. After that, the risk and opportunity management process is characterised by first identifying and assessing risks and opportunities, followed by the development and implementation of a response plan covering the intended and planned actions for dealing with identified risks and opportunities. The response plan should be developed and implemented in line with the chosen overall risk and opportunity strategies.

The professional or practitioner is responsible for involving team members and keeping the team committed to the risk and opportunity management process; for making the team alert to risks and opportunities; for involving other stakeholders in the process and for involving the appropriate subject matter experts, whenever necessary.

Risk is also a key consideration when identifying projects and programmes for selection in the portfolio. When a portfolio is 'balanced', the overall risk level is minimised for any given set of projects and programmes.

Knowledge

- Strategies for managing risk and opportunity
- Contingency plans and fallback plans
- Cost and duration contingency reserves
- Expected monetary value
- Qualitative risk assessment tools and techniques
- Quantitative risk assessment tools and techniques
- Risk and opportunity response strategies and plans
- Risk identification techniques and tools
- Scenario planning
- Sensitivity analysis
- Strengths, weaknesses, opportunities, threats analysis (SWOT)
- Risk exposure, appetite, aversion, tolerance
- Project or programme risks and business risks (and opportunities)
- Residual risk
- Risk and opportunity probability, impact and proximity
- Risk owner
- Risk register
- Sources of risk and opportunity

Skills

- Risk and opportunity identification techniques
- Risk and opportunity assessment techniques
- Developing risk and opportunity response plans
- Implementing, monitoring and controlling risk and opportunity response plans
- Implementing, monitoring and controlling overall strategies for risk and opportunity management
- Monte Carlo analysis
- Decision trees, e.g. Ishikawa analysis

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- Perspective 4: Power and interest
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness

Key Competence Indicators

6.5.11.1 Develop and implement a risk management framework

Description: The professional or practitioner designs, develops and implements a risk management framework to be used by component projects and programmes in order to ensure that risks and opportunities are consistently and systematically managed throughout the life cycle of the portfolio. The risk management framework includes the definition of the methods to be used to identify, categorise, evaluate, assess and treat risks and should link to the organisation's risk management policy and international, national or industry standards. The risk management framework also describes who is responsible for handling which risks and opportunities, and what kind of escalation paths there are (upwards, down-wards, sideways).

Measures

- Identifies a range of potential risk management models
- Develops a risk management framework consistent with organisational policy and international standards
- Ensures the consistent application of the risk management framework

6.5.11.2 Identify risks and opportunities

Description: The professional or practitioner is responsible for the ongoing task of identifying all sources of risks and opportunities and involving others in this process. There are various sources of risks and opportunities, both internal to the portfolio and external. The professional or practitioner can make use of various techniques and sources to identify risks and opportunities; e.g. from lessons learned from other portfolios, literature, risk and opportunity break-down structures and interactive sessions with team members, stakeholders and subject matter experts. The identification process is not only about identifying risks but also about opportunities that could, for instance, make the deliverables cheaper, or make the components run faster, less prone to risks or simply better from a quality perspective. Because the influences coming from the environment do change over time, risk and opportunity identification should be a continuous and ongoing process.

Measures

- Names and explains various sources of risk and opportunity and the differences between them
- Identifies risks and opportunities
- Documents risks and opportunities in a register

6.5.11.3 Assess the probability and impact of risks and opportunities

Description: The professional or practitioner is responsible for the ongoing task of assessing identified risks and opportunities. Risk and opportunity assessment can be done qualitatively and quantitatively. The best approach is to do both, and to regularly re-assess both risks and opportunities. The qualitative assessment could cover a more in-depth analysis of the sources behind identified risks and/or opportunities; it also deals with conditions and impacts. An example is scenario planning.

The quantitative assessment deals with probabilities and estimates and it also translates probabilistic impacts into quantifiable measures. Quantitative assessment provides numerical values measuring probability and impact expected from risks and opportunities. Monte Carlo analysis and decision trees are examples of powerful quantitative risk assessment techniques.

Measures

- Engages in qualitative risk and opportunity assessment
- Engages in quantitative risk and opportunity assessment
- Makes and interprets a risk or opportunity decision tree, with outcomes

6.5.11.4 Select strategies and implement treatment plans to address risks and opportunities

Description: The professional or practitioner is responsible for the ongoing process of selecting and implementing optimal responses to any identified risk or opportunity. This process entails assessing various possible types of responses and finally selecting the ones that are optimal or most appropriate. For each risk the response options may include:

- Avoiding the risk by deciding not to start or continue with the activity that gives rise to the risk
- Accepting or increasing the risk in order to pursue an opportunity
- Removing the risk source
- Changing the likelihood
- Changing the consequences
- Sharing the risk with another party or parties (including contracts and risk financing)
- Accepting the risk by informed decision
- Preparing and implementing a contingency plan.
- Similar response options apply to opportunities:
- Eliminating the uncertainty by making the opportunity definitely happen (exploit)
- Allocating ownership to a third party who is best able to handle it (share)
- Increasing probability and/or impact, by identifying and maximising key opportunity drivers (enhance)
- Taking no special measures to address the opportunity (ignore)

Those risks that are not acceptable and those opportunities that are to be pursued require an appropriate response plan. Often, even after implementing risk responses, there is a residual risk that still has to be managed.

Measures

- Explains various means and methods for implementing a chosen overall strategy for the risk and opportunity management process
- Evaluates responses to risks and opportunities, including their strengths and weaknesses
- Evaluates alternative means and methods for implementing a risk and opportunity response plan
- Influences the plan for resources and competences required to implement responses

- Implements and communicates a risk and opportunity response plan

6.5.11.5 Evaluate and monitor risks, opportunities and implemented responses

Description: After the appropriate risk and opportunity responses have been implemented (this may include appointing risk owners for certain or all risks), the risks and opportunities will need to be monitored. The risks and opportunities and the appropriateness of the selected treatments should be re-assessed periodically. Risk and opportunity probabilities and/or impacts may change, new information may become available, new risks and opportunities may arise, and the responses may not be appropriate any more. The overall strategies may also need to be evaluated. In fact, risk and opportunity management is not just a periodic process, but should take place continuously, as all actions may carry a risk aspect.

Measures

- Monitors and controls the implementation and execution of a risk and opportunity treatment plan
- Communicates the risks and opportunities and the appropriateness of the selected responses

6.5.12 Stakeholders

Definition: The stakeholder's competence element includes identifying, analysing, engaging and managing the attitudes and expectations of all relevant stakeholders. All professional or practitioners, groups or organisations participating in, affecting, being affected by, or interested in the execution or the result of the portfolio can be seen as stakeholders. This may include sponsors, clients and users, suppliers/ subcontractors, alliances and partners and other projects, programmes or portfolios. Stakeholder engagement includes constantly revising, monitoring and acting upon their interests and influence on the programme. Stakeholder engagement may also involve building strategic alliances that create organisational capacities and capabilities where both risks and rewards are shared.

Purpose: The purpose of this competence element is to enable the professional or practitioner to understand stakeholder interests, influence and expectations, and to engage stakeholders and effectively manage their expectations.

Description: Stakeholder engagement is an ongoing process, taking place throughout the life cycle of the portfolio. Stakeholders are the partners for and through whom the portfolio will achieve success. Stakeholders' expectations, needs and ideas create the need and form the basis for the programme; stakeholders' money and resources are necessary inputs, and the outcomes are used by stakeholders.

Stakeholders come in various forms and groupings (higher management, users, suppliers, partners, pressure and special interest groups, etc.) and have varying attitudes, interests and influence. So each stakeholder or stakeholder group has different information needs. An engagement strategy (often laid down in a communication plan) is therefore essential. This strategy might be executed by focusing on both formal and informal communication channels as well as more involving forms such as alliances, collaboration or networks. Alliances are often documented and formalised through a formal contract document, such as an alliance contract, or through the establishment of a joint-venture entity. Collaborators may often be from separate parts within an organisation, or may comprise one or more different organisations. Networks have no clear power structure, and hence form a more difficult force-field to engage with. During the execution of the engagement strategy the stakeholder environment should be constantly monitored for changes to ensure continuous alignment and improvement.

Knowledge

- Stakeholder interests
- Stakeholder influence
- Engagement strategies
- Communication plan
- Types of collaborative agreements
- External environment scanning relating to social, political, economic and technological developments

Skills

- Stakeholder analysis
- Understanding contextual pressures
- Demonstrating strategic communication skills
- Expectations management
- Formal and informal communication
- Presentation skills
- Networking skills to identify potential collaborators
- Contextual awareness
- Motivational techniques
- Undertaking conflict resolution

Related competence elements

- All other practice CEs
- All perspective CEs
- People 3: Personal communication
- People 4: Relations and engagement
- People 5: Leadership
- People 8: Resourcefulness

Key Competence Indicators

6.5.12.1 Identify stakeholders and analyse their interests and influence

Description: The professional or practitioner identifies all professional or practitioners, groups and organisations relevant to the portfolio. The professional or practitioner first has to analyse the attitudes of each stakeholder (group) and find out the reasons for these attitudes (interests of the stakeholder regarding outcome or process). Secondly, the professional or practitioner needs to know the potential beneficial or harmful effect (influence) this stakeholder (group) can have on the portfolio or any component. Their interests can come from various sources (for instance because they want to, or have to, use the portfolio component's deliverables or because they are competing for scarce resources or budget). They can be large or small, and either positive or negative.

A stakeholder's influence can also be greater or smaller, and may be concentrated in one or more areas (such as being able to supply or withhold funding, resources, office space and equipment, priority, access, etc.). During the portfolio life cycle, the professional or practitioner maintains an active analysis of the environment of the portfolio, to identify new stakeholders, changed interests or changed influences. These changes in the stakeholder environment can be the result of changes in portfolio

components themselves (for example, going from a design to an execution phase). More often they are the result of changes in the context of the portfolio (organisational changes, personal changes in management, change in the economy, new regulations, etc.). The professional or practitioner analyses the relevance of these changes for the portfolio.

Measures

- Identifies the major stakeholder (categories)
- Identifies and names various stakeholders' interests
- Identifies and evaluates stakeholders' influence
- Identifies relevant changes in or around the portfolio
- Analyses the consequences of changes for the portfolio
- Takes actions in order to manage stakeholders

6.5.12.2 Develop and maintain a stakeholder strategy and communication plan

Description: The professional or practitioner will devise a stakeholder strategy how to engage, keep informed, involve and commit the various stakeholders to the portfolio, its strategy and its objectives. This can be done by approaching each stakeholder (or group of stakeholders) differently, depending on their interest and influence. To make it manageable, stakeholders with similar interests and influence can be grouped together. The stakeholder strategy is often laid down in a communication plan, which describes for each stakeholder (or group) the why, what, when (and how often), how (through which communication channel), who (should communicate), and the level of detail of the communication. The 'what' is essential; the message should be tuned to the specific stakeholders' expectations and should be aimed at committing each stakeholder to supporting (or at least not thwarting) the portfolio.

The communication plan is central to expectation management. This can be summed up as the efforts of the professional or practitioner to influence the expectations of the various stakeholders so that these come to expect and appreciate what (and when) the portfolio can and will deliver (and not get disappointed because of wrongly held expectations about the project's progress and outcomes). Of course every communication is at least two-sided, so attention and care should be given to whether and how the sent communication was received, and follow-up should be given to feed-back and other incoming communication. As circumstances change, the communication plan should be regularly revised and updated. Potential alliances are developed and potential collaborators are identified. The benefits and out-comes of the potential partnership or alliance are identified for all parties. A relationship is established and developed with potential collaborators.

Measures

- Describes the importance of a stakeholder strategy
- Prepares a communication plan
- Explains the why, what, when, how, who and level of detail necessary for a specific stakeholder (or group)
- Adjusts the communication plan and/or strategy based on changed circumstances
- Explains reasons for changing a communication plan
- Identifies and evaluates opportunities for alliances and partnerships
- Identifies and evaluates potential collaborators

6.5.12.3 Engage with the executive, sponsors and higher management to gain commitment and to manage interests and expectations

Description: For portfolios and almost all components the most important stakeholders are executives and sponsors. Often the executive is the supplier of funds (budget) and/or can decide on resources, priority of requirements, definition of scope, etc. With these primary stakeholders, expectation management is of the utmost importance. The commitment and confidence of the executive, higher management and/or sponsor(s) is of great benefit both to the success of the portfolio and components and that of management. A good working relation and open communication should be established.

Sometimes the roles are combined in one person; more often different people fulfil one or more of these roles. They all have their own expectations, interests and influence. Depending on the portfolio, the components and the context, the executive and/or sponsor(s) can play their part in the stakeholder management and act as ambassadors, as they often have status and connections that the professional or practitioner manager lacks.

Measures

- Engages management and/or sponsor(s)
- Manages expectations of the project's executive, higher management and/or sponsor(s)
- Employs the executive and/or sponsor(s) to act as ambassadors

6.5.12.4 Engage with users, partners and suppliers to gain their cooperation and commitment

Description: For portfolios and each component, early and thorough involvement of users is a prerequisite for success. Users (or their representatives) can provide information such as needs and requirements and how the outcome will be used. This is often essential to the definition of each component and its deliverables. Users (or user groups) may also provide resources. Suppliers can provide the portfolio or a component with resources, knowledge, sub-products, etc. Care should be taken in choosing the best providers, especially if the knowledge, resources and/or sub-products can only be obtained from outside the organisation and formal contracts have to be closed to obtain these.

Partners are people, groups or organisations that cooperate to jointly deliver part of the portfolio's outcomes, or they may make a broader contribution to achieving portfolio objectives. These partners may only have joined their efforts for a specific component, or they may work together on a more permanent, alliance basis. Partners may also be other managers with whom the pace, or deliverable content, of this project has to be tuned to optimise the benefit for the organisation.

When the portfolio has a steering committee, one or more senior users (user representatives) and senior suppliers (supplier representatives) are part of that committee. Users and other stakeholders may be part of a sounding board that advises the executive or steering committee. The professional or practitioner has to focus on these stakeholder groups from very early on in the portfolio, and use his or her influence to select the right user representatives and suppliers.

Measures

- Engages users and commits them to the portfolio and relevant components
- Commits suppliers to the portfolio and relevant components
- Cooperates with partners to deliver the optimal result for the organisation

6.5.12.5 Organise and maintain networks and alliances

Description: As part of the stakeholder strategy, networks and alliances can be implemented. These can be both formal and informal. When they are formal, agreements are negotiated and documented and a plan for ongoing cooperation is developed and implemented. As part of this plan, performance measures are identified and an exit strategy is developed. All networks and alliances should be evaluated frequently and improved when necessary. Alliances can be ended by design, or because the formal relationship is no longer beneficial to the constituent organisations or stakeholders. Often, the organisation is quite likely to want to make alliances with the same partners for new ventures in the future, so the ending of a formal relationship needs to be handled carefully. Networks are more informal and generally need to be maintained over the life cycle of the portfolio or, in the case of a portfolio, for a specific timeframe.

Measures

- Negotiates and documents the alliance agreement
- Develops and implements a plan for cooperation
- Develops and evaluates measures for success
- Maintains key partnership agreements
- Closes all formal contractual agreements

6.5.13 Change and Transformation

Definition: Newly developed capabilities only deliver benefits when they are put to use, and when they are supported by the organisations and people receiving them. Change (improvement of a current situation, keeping the past in mind) and transformation (the emerging development of new situations, based on a vision of the future) provides the process, tools and techniques that can be utilised to help professional or practitioners and organisations make successful personal and organisational transitions resulting in the adoption and realisation of change.

Purpose: The purpose of this competence element is to enable the professional or practitioner to help societies, organisations and professional or practitioners to change or transform their organisation, thereby achieving projected benefits and goals.

Description: Portfolios are organised in order to achieve improvements. In many cases, these improvements are not only achieved by delivering an outcome, but also require small or large changes in the behaviour of the organisation.

People usually do not object to change – they object to being changed. Successfully addressing their objection can be done by, for example, building support, addressing resistance and developing the required knowledge and ability to implement the change. More strategic change will also encompass influencing a leading coalition, and other psychological and psychosocial interventions. When change management is done well, people feel engaged in the change process and work collectively towards a common objective, realising benefits and delivering results.

Transformation occurs when, based on a vision, behaviour is changed because there is a will to do things differently. Transformation is vision led, and depends largely on the strength of the vision and the willingness of the people who share the vision to really put their energy into making it happen.

The level of change and transformation management required by a portfolio will largely depend on the amount of disruption created in professional or practitioners' and groups' day-to-day lives, plus attributes

such as culture, value system and history with past changes. Change and transformation do not primarily happen 'by design', and are not usually a linear process. The professional or practitioner needs to regularly monitor and evaluate the effectiveness of the changes and adapt the change or transformation strategy. The professional or practitioner also needs to take into account the change capacity and capabilities of people, groups or organisations in order to help them successfully adapt or transform.

Portfolios usually deliver new capabilities. However, it is only when these capabilities are put to use that value is added and benefits can be achieved. Organisational or business changes often affect or alter processes, systems, organisational structure and job roles, but most of all they influence people's behaviour. Changes can be quite small, or they can require a complete transformation. Sometimes they can even be disruptive, which means special skills are needed to bring them about.

Knowledge

- Learning styles for professional or practitioners, groups and organisations
- Organisational change management theories
- Impact of change on professional or practitioners
- Personal change management techniques
- Group dynamics
- Impact analysis
- Actor analysis
- Motivation theory
- Theory of Change

Skills

- Assessing an professional or practitioner's, group's or organisation's change capacity and capability
- Interventions on behaviour of professional or practitioners and groups
- Dealing with resistance to change
- Related competence elements
- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 4: Power and interest
- Perspective 5: Culture and values
- People 3: Personal communication
- People 5: Leadership
- People 8: Resourcefulness

Key Competence Indicators

6.5.13.1 Assess and review the impacts of changes affecting the portfolio

Description: Organisations and people have limited capacity, capability and willingness to change. This is influenced, among other factors, by the success of earlier changes, stress and pressure, the understood need for this particular change, culture and atmosphere and seeing good or facing bad perspectives. There might also be resistance to the proposed change, either openly or hidden, which negatively influences the adaptability to change. In many cases, opposition does not come from those people who are directly affected by the change, but from those who manage them. The adaptability to change is not fixed but will be influenced by factors both inside and outside. The portfolio itself does not

deliver the change. However it gets affected by one and therefore professional or practitioner needs to assess and review the possible impacts affecting the portfolio.

Measures

- Analyses the adaptability to the required change, based on previous successful and unsuccessful changes in the organisation
- Assesses possible areas (topics, people) for resistance to the change
- Recognises and influences circumstances which can improve the adaptability

6.5.13.2 Develop change or transformation strategy for the portfolio

Description: A change strategy is developed by the professional or practitioner (or emerges and therefore is put together by the professional or practitioner) to address the envisioned changes or transformations. It takes into account the ability to change or the willingness to transform. The transformation plan is developed and validated by relevant professional or practitioners and groups. Changes and transformation do not happen overnight, but usually take a while before value is added.

Measures

- Identifies transformation strategies
- Collaborates with others to validate strategies
- Documents strategies

6.5.13.3 Sustain the change process

Description: Once a change is induced, measures should be taken to sustain the change. The professional or practitioner should constantly monitor and assess what activities are contributing to the desired change. Successful activities are documented in a lessons learned database.

Measures

- Monitors and addresses resistance to change
- Implements selected interventions
- Leads or organises workshops and training
- Regularly adapts the change or transformation plan to incorporate lessons learned and changes in the portfolio

6.5.14 Select and balance

Definition: Select and balance focuses on the assessment, selection and performance monitoring of projects and programmes within the portfolio scope, and on the balancing of the portfolio, that is, making sure that the portfolio as a whole creates optimal benefit for the organisation.

Purpose: The purpose of this competence element is to enable the professional or practitioner to prioritise, select and re-assess all projects and programmes within the portfolio scope, based on clear criteria. Maintaining the balance, consistency and performance is crucial in order to achieve the outputs and outcomes.

Description: This competence element is at the core of the management of the portfolio's component projects and programmes. The 'select and balance' process involves selecting projects and programmes on a cyclical basis to ensure the portfolio remains balanced. Project and programme selection is an ongoing and iterative process, in which a portfolio is populated with both new and existing

projects and programmes and those that have been completed are removed from the portfolio. Some projects or programmes may be cancelled or put on hold, and, while they may remain within the portfolio, they are not 'active'. The selection activity itself may occur at regular intervals, such as once or twice a year (up to quarterly), taking into account changing organisational needs and priorities. The selection process may be associated with the organisation's budget process or may occur separately from it. Proposals or business cases for new projects and programmes may be put forward for consideration and potential selection. These proposals are reviewed to ensure that they align with the needs and priorities of the organisation. Constraints such as time, cost or resource availability are also considered. The selection process itself may also result in existing projects and programmes being put on hold, cancelled outright or being given a lower priority.

Upon approval, projects and programmes are initiated using the organisation's approved initiation process, which may be administered or managed through a portfolio management office. Balancing a portfolio is the process of making sure the portfolio is actually delivering the projected organisational goals in the right way, and in line with the right organisational priorities. It is the process of monitoring the progress of components, the impact they have on the organisation and the achievement of the organisational goals. Based on this monitoring, future performance is predicted. If and when necessary, changes to the portfolio are proposed to the decision making body. Possible changes could be to slow down or speed up components, to relocate strategic resources from one component to the other, or even (sometimes temporarily) to stop components. This process is regular, usually taking place monthly.

While this is a planned and usually stable process, sudden changes may arise, usually because of a sudden change in priorities or in the environment of the organisation. In these cases, the entire portfolio needs to be re-assessed and acknowledged.

Knowledge

- Supply and demand concepts
- Analysis methods and techniques, including:
 - Cost-benefit analysis
 - Quantitative analysis
 - Multi-criteria analysis
 - Scenario planning
 - Probability analysis
 - Graphical analysis methods
- Presenting multi-dimensional and complex information in creative ways, including:
 - Bubble charts
 - Three-dimensional graphs
 - Balanced scorecard matrix
 - Pair-wise comparison
- Business cases and feasibility studies
- Financial information analysis and trend analysis
- Quality and continuous improvement
- Process improvement
- Metrics and key performance indicators as management tools

Skills

- Progress control

- Change management
- Reporting
- Negotiation
- Start-up workshop
- Kick-off meeting
- Dependency mapping
- Capacity analysis for:
 - Human resources
 - Financials
 - Assets
- Risk and opportunity analysis techniques, for example:
 - SWOT
 - PESTLE
 - Core capabilities analysis
 - Scenario planning
- Decision making models and strategies
- Ability to determine the organisation's preferred portfolio mix
- Ability to make 'trade-offs' where no perfect solution exists
- Ability to use multiple criteria to make management decisions
- Creating, using and applying appropriate key performance indicators
- Identifying and documenting project and programme benefits
- Determining project and programme performance based on high-level information

Related competence elements

- All other practice CEs
- Perspective 1: Strategy
- Perspective 2: Governance, structures and processes
- Perspective 3: Compliance, standards and regulations
- People 5: Leadership
- People 7: Conflict and crisis
- People 8: Resourcefulness
- People 9: Negotiation

Key Competence Indicators

6.5.14.1 Identify programmes or projects or ideas that could be included in the portfolio

Description: Projects and programmes are identified by initially capturing them in a list, and then regularly updating the list. This list may include ideas, proposed projects and programmes, or projects and programmes at various stages of their delivery life cycle. Projects and programmes may also be listed as inactive or on hold. Dependencies between projects and programmes are mapped to determine the resultant business benefits to be achieved. Mandatory projects and programmes are identified and added to the project portfolio, where appropriate.

Measures

- Undertakes a census to identify and capture all ideas; proposed, planned, active or inactive projects and programmes in the organisation
- Captures and documents issues and their status
- Maintains inventory and reviews with appropriate professional or practitioners/teams

6.5.14.2 Analyse the characteristics of programmes and projects

Description: All projects and programmes are analysed to determine their feasibility, plus their resource, time and cost profile. The analysis also looks for any interdependencies, and determines how each pro-programme and project is aligned with strategic goals and objectives. The desirability of projects and programmes is assessed based on their risk, projected benefits and business impacts assessment. Where the benefits and business impacts are not clear or definable, a feasibility study may be commissioned to determine investment merit. Mandatory projects and programmes associated with the need to implement legislative, regulatory or compliance requirements, for example, are identified for inclusion in the portfolio.

The appraisal and prioritisation of the projects and programmes is focused on ensuring that they are aligned to the needs and priorities of the organisation. Projects and programmes are compared and prioritised. The portfolio is also examined to ensure there are no duplicate projects and programmes. Consideration is also given to how the projects and programmes may potentially be delivered, with recommendations for grouping or clustering to improve efficiency.

Measures

- Captures information about project and programme interfaces, emergent risks, resource and cost requirements and business benefits and their timings
- Maps dependencies between projects and programmes
- Identifies mandatory projects and programmes and flags them for inclusion in the portfolio
- Undertakes comparative analysis to determine the most appropriate projects and programmes to receive organisational investment
- Projects and programmes are prioritised based on the comparative analysis
- Projects and programmes that deliver similar business benefits and outcomes are examined and adjusted to remove duplication and take advantage of synergies
- Related projects are grouped for management as a programme to ensure relevant efficiencies are captured

6.5.14.3 Prioritise programmes and projects based on the organisation's priorities

Description: The organisation determines the criteria it will use to prioritise projects and programmes. These criteria may include risk, project size, project type or strategic importance. The priorities may be reviewed and changed over time due to organisational needs, market changes or changes in strategic goals. The prioritisation criteria for project portfolio assessment are agreed with executive stakeholders. Projects and programmes are prioritised based on these criteria with a rank order list of components being created. This list of components is then fed into the resourcing, funding and selection processes to ensure that these factors are considered. Project and programme managers are also able to determine critical success factors and KPIs based on the organisation's prioritisation criteria.

Measures

- Identifies, documents and reviews methods and criteria to reflect changing organisational priorities for prioritising projects and programmes
- Ensures agreement on prioritisation criteria for the project portfolio with executive stakeholders
- Supports executive review and prioritisation process
- Supports the resourcing, funding, and selection processes
- Prioritises projects and programmes based on their alignment and contribution to organisational strategic objectives

6.5.14.4 Programme and project delivery oversight

Description: The professional or practitioner is required to manage the portfolio and provide oversight of the programmes and projects being undertaken within the portfolio. It is important for him or her to be aware of the status of the components and how they are progressing (schedule and budget), and of any potential risks. The professional or practitioners may recommend that components should be reviewed, or that specific components be put on hold, cancelled, or have their scope modified, if they no longer meet their identified objectives or benefits. These recommendations should be fed into the project selection process from time to time.

Measures

- Aligns portfolio based on appropriate review points in the portfolio review cycle
- Captures and reviews qualitative and quantitative data to determine project and programme performance against respective plans
- Monitors the portfolio to ensure that programmes and projects are meeting their identified key objectives and benefits
- Identifies and flags for further investigation projects and programmes not achieving planned performance
- Identifies and recommends changes to components in the portfolio

6.5.14.5 Analyse and predict the future performance of a portfolio

Description: In managing the project portfolio, the professional or practitioner is required to analyse and predict its future performance. This may be an ongoing process for the purpose of reporting to senior management or as part of the day to day management function in the organisation. As part of managing project portfolio performance, the value and contribution to strategic priorities must be regularly assessed to determine whether the components within the portfolio are delivering as intended, and to ensure that the overall project portfolio remains balanced and strategically aligned. The professional or practitioner may also identify lessons learned and feed any recommendations into the component identification, prioritisation or selection processes.

Measures

- Reviews and improves project identification and approval processes
- Assesses portfolio value and contribution to strategic priorities through the monitoring and review of key performance indicator measures
- Identifies and assigns lessons learned into the project selection, prioritisation and portfolio balancing processes

6.5.14.6 Prepare and facilitate portfolio decisions

Description: The professional or practitioner identifies and documents the methods to be used to select projects and programmes, taking into account the organisation's desired mix. This mix may be based on risk, technical domain and/or some other criterion. All mandatory projects (e.g. compliance or legislation change) are identified and added to the portfolio irrespective of their ranking or priority. Some projects and programmes may not be approved or may be rejected. Existing projects and programmes may be cancelled or put on hold.

Recommendations for components to be included in the portfolio are passed to the executive approving body (e.g. senior management, investment committee, etc.) for approval. Where projects and programmes are approved, the funding and resources are allocated. The decisions of the approving body are communicated to stakeholders to ensure awareness and clarity.

Measures

- Identifies and documents the organisation's ideal project and programme mix
- Selects projects and programmes for inclusion in the portfolio based on the organisation's approved selection approach
- Prepares project and programme selection recommendations for approval
- Communicates the results of project and programme selection to stakeholders

7.0 Organisational Competence Baseline for Developing Professionals

The concept of organizational competencies is one of the most misunderstood and misapplied concepts in organizational project management. Organizational competencies are often thought to be simply employee skills rather than the compelling cross company core competencies that drive integrated project execution and management alignment.

A broader definition of organizational competencies focuses on the first word "organizational". Under this definition, the organization becomes the focus. It is the organization as a whole that must perform not just an individual employee. Under this approach the organization must step outside itself and evaluate, what things it does on an ongoing, systemic basis that enables it to achieve its mission.

The Organizational category encompasses those competencies required to manage the institution's business operations. In general, organizational competencies involve coordinating work both with other institutional divisions and with external entities, optimizing use of available resources, setting short- and long-range goals, and developing the strategies and policies to achieve such goals.

7.1 Introduction

As with individual project professionals, an organization needs to become more competent, i.e., develop the necessary skills, knowledge and attributes, to evolve and mature as a project-based organization. The ability of the organization to effectively manage a program or portfolio of projects, to support those projects in its operating environment, and to effectively apply best practice project management principles, processes and techniques is influential to the success of projects and the ultimate realization of organizational goals and objectives. Thus, by addressing these and other relevant issues, the more likely the organization is to evolve, mature, develop and be more successful.

During the last few decades, a majority of organisations in Ghana of all sizes and in all sectors have given emphasis to the successful delivery of projects. An increasingly complex and dynamic world requires organisations to meet the more demanding expectations of their stakeholders through the better management of projects, programmes and portfolios. These aspirations are despite various constraints such as deadlines or fixed budgets. In addition it is expected that projects should operate effectively and efficiently with optimal use of resources. While it is, of course, necessary to develop the competence of professionals and teams, it is also necessary to analyse and develop the competence of the organisation.

Also central to this development of competence is the organization's ability to assess its performance both internally and in relation to its competitors. As with individuals, endorsed organizational competency standards would provide a foundation for (1) the development of an organization's project strategy aligned to corporate strategic goals, objectives and plans; (2) the professional development, selection and employment of project staff; and (3) the design, development and implementation of project management-related methods, standards and systems all of which, in turn, would influence the evolving and maturing process, or the attainment of competence, for the organization.

7.1.1 The Components and Dimensions of Competence

For project professionals, it is generally accepted that competence comprises the following components:

- An individual's **knowledge, skills, attitudes and behaviors** that are causally related to superior job performance (Boyatzis, 1982); and
- An individual's **ability to perform activities** within an occupational area to the levels of performance expected in employment.

As well as these components, there are also the following dimensions of competence, which also have to be taken into account:

- **Input Competencies:** the knowledge and understanding, skills and abilities that a person brings to a job.
- **Process Competencies:** the core personality characteristics underlying a person's capability to do a job.
- **Output Competencies:** the ability to perform the activities within an occupational area to the levels of performance expected in employment. (Finn, 1993; Crawford, 1997)

To be deemed or recognized as competent, an individual must be assessed against each of these components and dimensions, as well as endorsed competency standards.

7.1.2 The Components and Dimensions of Organization

Research has determined that these components and dimensions of competence can be articulated to organizations as well as individuals, and hence that a definition of organizational competence in the management and support of projects could contain the following components:

- What the organization brings to its projects through its technical and/or product/service specializations, market orientation, business knowledge, policy/procedural framework, methods, and systems; and
- What the organization brings to its projects through its structure, culture and behavior; in combination with
- What the organization is able to demonstrate in its ability to successfully deliver quality outcomes through the effective management and support of its projects.

Proposed Dimensions of Organizational Competence

Knowledge + Skills	INPUT COMPETENCIES	The technical and/or product specialization, market orientation, business knowledge, and methods, procedures and systems an organization brings to its projects
Core Personality Characteristics	PROCESS COMPETENCIES	The organizational structure, culture and behavioral aspects an organization brings to its projects
Demonstrable Performance	OUTPUT COMPETENCIES	The ability of the organization to successfully manage and support its projects to produce quality outcomes

In a similar manner to that of individuals, a combination of these components and dimensions of competence provides an outline of an organization's competence

7.1.3 Implications for Organizational Competence

The similarity between the components and the dimensions of competence for individuals and organizations is significant. It essentially means that, if viewed from a competency perspective, organizations are able to be developed, assessed and recognized in relation to their level of competence against endorsed competency standards. Also, as with individuals, to be deemed or recognized as competent, an organization must be assessed against all components and dimensions.

Development could be facilitated by a number of initiatives, including the development, implementation and/or refinement of:

- An appropriate **management and support framework** for the conduct of projects
- An endorsed and accredited **professional development program** for project and associated staff

- Best practice **methods, procedures, processes, systems and tools.**

As with development, **assessment** would also be based on endorsed competency standards and would be based on a balance of external, internal and self-assessment methods aimed at ensuring the organization is achieving its business-related outcomes based on its endorsed strategic goals, objectives and plans.

Recognition would be facilitated either internally for the organization's staff and/or externally within the industry sector, market and/or operating environment and again linked to the attainment of endorsed competency standards.

7.1.4 Critical Success Factors and Core Best Practices

For organizations to achieve or enhance their competence, they must progressively address certain factors considered critical to the effective management and support of projects. Through extensive consultation with organizations and industry, it has been determined that these Critical Success Factors (CSFs) are:

- **Project Strategy.** The organization should formulate a project strategy in alignment with endorsed strategic plans, goals and objectives.
- **Project Appraisal.** The organization should formally appraise projects for inclusion in its programs and/or portfolios.
- **Management of Projects.** The organization should manage programs and/or portfolios of projects within the operating environment.
- **Support of Projects.** The organization should support programs and/or portfolios of projects within the operating environment.
- **Organizational Change.** The organization should plan for and manage the change that is generated within it by the conduct of programs, portfolios and/or projects.
- **Project Management Methodologies, Procedures and Systems.** The organization should develop and apply appropriate project management methodologies, procedures and systems in accordance with best practice.

Each of these CSFs have Core Best Practices associated with them which break them down and specify the actions which should be taken by the organization to achieve competence in the particular CSF.

7.1.5 The Measurement and Assessment of Organizational Competence

The measurement of an organization's competence in the management and support of projects and the method of its assessment involves:

- The establishment of competency standards on which measurement and assessment can be based
- The development of appropriate assessment criteria and their implementation in the assessment process
- The consideration of the impact on what is being assessed of the components and dimensions of competence specific to either the industry and/or the organization.

- Generic competency standards, assessment criteria and appropriate component and dimensional impact criteria have been developed by the project.

Example of Competency Standards for CSF

UNIT OF COMPETENCY: UNIT 1: FORMULATE A PROJECT STRATEGY	
Formulate a project strategy in alignment with endorsed strategic plans, goals and objectives.	
Element of Competency	Performance Criteria
1.1 formulate a project strategy in alignment with endorsed strategic goals, objectives and plans	1.1.1 identify business-related outcomes to be realized from strategic goals, objectives and plans
	1.1.2 formulate strategy for realizing business-related outcomes through the conduct of projects
	1.1.3 secure organizational approval of project strategy
Range Indicators: Those variables which are organization— or industry—specific which should be taken into account when addressing the performance criteria and compiling the evidence, eg. constraints imposed by environment, legislation, technology quality requirements corporate direction, etc. In general, these indicators would be drawn from Input and/or Process competencies.	
Evidence Requirements: Examples of suitable evidence would be: Documentary evidence of the project strategy, its origins, determination and approval/endorsement. These requirements could be drawn from Output (or performance-based) competency dimensions.	

7.1.6 Organizational Competency Standards

Competency standards for organizational competence have been developed utilizing both these critical success factors (CSFs) as well as the components and dimensions of competence identified by the project. It is these standards that provide the basis for the measurement and assessment of competence in the management and support of projects within the organization.

Competency standards are generally formatted as outlined comprise:

- Units of Competency
- Elements of Competency
- Performance Criteria
- Range Indicators (or Range Variables)
- Evidence Requirements.

The example provided in table below outlines the competency standards for CSF 1: Formulate a Project Strategy. In this example, the Units of Competency was derived from the appropriate CSF, the Element of Competency from the Core Best Practices associated with the CSF, and the Performance Criteria from the activities required to satisfy the Element of Competency. Generic guidelines for Range Indicators and Evidence Requirements are also outlined.

Organizations aspiring to be competent in this Unit of Competency would be required to meet the Performance Criteria of each Element as set out in the Competency Standards. The organization would meet these criteria by providing evidence (e.g., in this case, a project strategy document) for assessment by either internal or external agencies. The type and nature of evidence to be provided would be guided by the Range Indicators, which place industry and/or organizational boundaries around the evidence and assessment requirements, and the Evidence Requirements.

Units of Competency. Units of Competency have been developed by the project for each of the six identified Critical Success Factors.

7.1.7 Assessment Criteria

The Units of Competency have been supplemented by Assessment Criteria, which specify what must be done by the organization to achieve competence in each Performance Criterion. This is designed to ensure that the organization is able to self-assess and provide evidence for final assessment, which is not deficient. It also has the purpose of indicating gaps in the organization's coverage of the requirements set out in the Standards.

An example of the Assessment Criteria and their application against Performance Criterion 1.1.1 of Unit 1 is outlined in the table below.

7.1.8 Linkage with Components and Dimensions of Competence

As well as specific Assessment Criteria being addressed for each Performance Criterion, those aspects of the components and dimensions of competence which impact on the Performance Criterion would also have to be addressed so that a complete assessment of competence is conducted. In the example presented above, these aspects are presented as Input, Process and Output competency requirements that are specific to the organization. This consideration of the specific Input, Process and Output competencies in conjunction with the pertinent assessment criteria not only adds rigor to the assessment process but also assists in ensuring coverage by the organization of the requirements set by the Standards.

Example of Assessment Criteria for CSF

UNIT OF COMPETENCY: UNIT 1: FORMULATE A PROJECT STRATEGY	
Element of Competency 1.1: formulate a project strategy in alignment with endorsed strategic goals, objectives and plans	
Performance Criteria	Assessment Criteria
1.1.1 identify business-related outcomes to be realized from strategic goals, objectives and plans	<p>ensure the following issues are addressed when identifying outcomes:</p> <ul style="list-style-type: none"> corporate understanding of project management and its application executive commitment to realizing business-related outcomes through the conduct of projects and the best practice application of project management adaptability of organization to conduct business through programs and/or portfolios of projects
Dimensions of Competence	
<p>Input:</p> <p>strategic goals, objectives and plans based on technical and/or product / service specialization, market orientation, knowledge of business and operating environment, policy/procedural framework, and project management methods, processes and systems</p> <p>Process:</p> <p>assessment of corporate understanding and executive commitment to realization of outcomes through the conduct of programs, portfolios and/or projects assessment of organizational adaptability to manage change incurred through conduct of programs, portfolios and/or projects aspects of management structure, leadership, power and politics inherent to the organization</p> <p>Output:</p> <p>list of endorsed outcomes which are able to be achieved through the conduct of programs, portfolios and/or projects</p>	

7.2 Purpose and Intended Users

The main purpose of this standard is to demonstrate the role of an organisation and its management in project-related work, to describe the concept of organisational competence in managing projects and how this can help deliver an organisation's mission, vision and strategy. Furthermore it aims to show how an organisation can develop its competence in a sustainable manner. The approach in this standard as in all other Project Management standards for teams is generic and written for application across all kinds of organisations and cultures. Therefore it is for the user to decide how it can be applied in a context and how it can be tailored to meet the needs of a specific organisation. It can be used as a basis for teaching, training and coaching people within an organisation. It can also be used to analyse, assess, develop, and continuously improve the management systems for projects, programmes and portfolios. The organization competence Baseline can also be applied to benchmarking or certification of an organisation's project, programme and portfolio system.

This standard has identified seven typical user groups, which are discussed below. However, it should be noted that in accordance with the generic nature of this standard that they are for illustrative purposes only to indicate a typical organisational structure. Therefore, no attempt is made to define the role of each group in detail. The list of user groups is not intended to be definitive or exhaustive. Nonetheless, the list provides an informative guide that can be adapted to any specific organisation's context.

Senior Executives of an organisation can use the standard to understand the role of project, programme and portfolio in executing and controlling mission, vision and strategy. It can help them to understand their own role in the concept of organisational competence in managing projects; to analyse the status of their organisation's competence in managing projects; to identify areas for improvement and to direct stakeholders, resources and activities for the development of the organisation's capabilities in managing projects. They can use this standard (alongside the more project-focused standards) as a basis to engage external partners for benchmarking, assessment, certification and consulting.

Executives Directing Project Management Activities (e.g. project management director, project management office director) can use the standard in a similar way to senior executives. Being directly involved, they can better understand the requirements for change (e.g. resulting from assessments), ensuring that organisational competence in managing projects continually satisfies the organisation's mission, vision and strategy and that intended results are achieved. The standard should help executives to interact more effectively with senior executives (e.g. to be able to clearly demonstrate the value of project management), as well as functional, project and external staff through developing a common understanding of project, programme and portfolio management and the need to implement change identified by assessments or benchmarking.

For **project, programme and portfolio professionals and practitioners**, this standard presents a framework in which to operate. This standard complements the more professionals and practitioners focused IPMP Professional Competence Baseline (IPMP PCB). Like the IPMP Professional Competence Baseline, they need to consider the IPMP OCB whilst managing projects, programmes and portfolios. The standard will assist with their understanding of the concept and their role within organisational competence in managing projects. The standard will help project, programme and portfolio managers understand how to implement recommendations for change to the most relevant and potentially effective elements of organisational competence in managing projects and to report on the impact of those changes. They can use this standard as a basis to directly improve the management of their projects, programmes or portfolios.

Internal or External Project Engineers and Consultants can use the standard to work with the organisation's top managers, senior executives, project, programme and portfolio managers and their staff to develop organisational competence in managing projects in a holistic way. Consultants may offer benefits such as specific expertise, independent views and additional capacity and provide services such as benchmarking, training and development.

Human Resources (HR) Professionals and Internal or External Educators, Teachers or Trainers can use the standard as a basis for developing individual competence aligned to the needs of the organisation. Training courses should show the context of project-related activities within organisations and how this should be considered while executing projects, programmes and portfolios. Training courses should also highlight the contribution each individual is able to make for continuous development of organisational competence in managing projects.

Certification Bodies and their Assessors can use the standard as a baseline for conducting an assessment, certifying organisations against the competences described in the document and deriving recommendations for the organisation to improve organisational competence in managing projects.

Researchers can use the standard to support their research proposals and to perform practice-based research using results of assessment or benchmarking activities. The standard can also be used in research to extract data and validate changes against baseline data generated internally or provided externally for trend analysis and continuous improvement, to identify good practice as well as innovation, enabling new research activities in the field of project, programme and portfolio management.

7.3 The Organisational View of Projects

This describes the organisational view of projects. It discusses the challenges faced by organisations in managing their projects in today's increasingly complex environment, and the internal and external context of an organisation. It then discusses the importance of an organisation's mission, vision and strategy, and how projects, programmes and portfolios are used as a means for delivering the organisation's goals and results.

7.3.1. Challenges for Organisations in Managing Projects

Work was always organised, but was maybe less structured and formal. Formalising coherent work into projects is increasingly becoming an accepted means of achieving goals. Many organisations deal with an increasing number of projects and programmes in areas like research and development, product creation and marketing, investment and organisational change. To meet these and other complex and dynamic challenges, organisations should focus on project-related competences and develop them in a sustainable manner. However, it is not sufficient to have highly motivated and competent people.

Today's challenges require organisations to deal with project management competences in a structured way. With the intensified use of projects, programmes and portfolios, the organisation's demands in terms of complexity increase. Increasing complexity in all aspects of projects is imposing challenges on project managers. This may include significant change or technical complexity, where all functional departments dealing with specific technologies need to be integrated and aligned to overall goals. The number of internal and external stakeholders involved is rapidly increasing, requiring relationship management, flexible communication, information structures and optimised interfaces. This is especially important for internationally spread organisations or project sometimes virtual teams. These require considerable investment of effort and resources with awareness of cultural sensitivities and differences.

An increasing number of projects and programmes require organisations to balance temporary and permanent parts of an organisation's structure. Specialised units such as project management offices (PMOs) emerge, providing a service to project staff, senior executives and governance structures. Portfolios embody projects, programmes and sometimes even sub-portfolios, helping senior management to align project activities with the organisation's strategy. Another challenge for an organisation is to deal with growing expectations of stakeholders. Customers demand high quality deliverables in short lead times at competitive prices.

Employees want to develop their career through projects and expect a competitively attractive work environment. Suppliers and partners require an organisation to build mutually beneficial relationships and cooperate on a fair basis. Project management needs to increasingly deal with people key among these are leadership, motivation, trust and relationship management. People competences are increasingly important for project managers, their staff and executives at all levels. Resource shortages drive many organisations to recognise the need to plan efficiently and deploy scarce resources in addition to people and knowledge, such as financial assets, personnel, knowledge, facilities, material and equipment in projects, programmes and portfolios. Planning and controlling of resources needs to

be done from a multi-project perspective (e.g. from a portfolio level) in order to do the right projects right. In a competitive world, organisations constantly need to strive for better performance, maximising opportunities and minimising risks imposed on them. Sustainable development is increasingly important for organisations operating within modern society.

ISO 26000 defines sustainability as 'integrating the goals of a high quality of life, health and prosperity with social justice and maintaining the earth's capacity to support life in all its diversity'. These social, economic and environmental goals are interdependent and mutually reinforcing. Therefore, organisations need to take account of sustainable development in order to meet stakeholder expectations for social responsibility.

Constant changes in society, economies, politics and technology require an organisation to determine continuously their optimal organisational design and then to respond accordingly. It needs to balance stability with flexibility, encouraging employees to be creative and to adapt ways of working while building on the experiences, standards and regulations derived from the past. As in the natural world, an organisation needs to develop in an evolutionary way, using wisdom and knowledge in order to survive and grow.

These challenges vary from organisation to organisation, depending on their vision, mission, strategy and the environment in which they operate. They need to analyse regularly their situation, identify relevant trends and align their strategies, processes, structures, cultures and competences. Standard solutions might be simple to use but will reach their limits in a challenging world. To succeed in today's environment, an organisation's management needs to adopt tailored approaches, building on a long-term mission, vision and strategy, responding flexibly to external challenges and striving to reach excellence.

7.3.2. An organisation in its context

The International Standard ISO 9000 describes an organisation as 'people and facilities with an arrangement of responsibilities, authorities and relationships'. The extent of the detail of the structure will depend on the objectives, needs and nature of the organisation. The term is used in the IPMA OCB standard in various contexts: public or private, profit or not-for-profit. In a business sense, it usually means a company, a part of a larger corporation or a joint venture of several companies.

In addition, there are organisations in the not-for-profit and public sectors as well as in our private lives (e.g. clubs and foundations). Organisations exist to achieve pre-set goals and to generate collective coordinated actions. The Organisational Competence Baseline differentiates between two kinds of organisation: a permanent organisation that remains over time and a temporary one, which is used for time-limited projects and programmes which close on completion. It is composed of temporary project and programme organisations. In addition, there are permanent units to manage multiple projects and/or portfolio management, for strategic and/or top management as well as functional units for product and service delivery. The units interact with each other to achieve the organisation's objectives in an effective and efficient way.

Each organisation can be defined by its internal and external perspectives. The external context of an organisation may include customers, regulators, partners, science, technology, economy, legislation, society and the natural environment. The internal context includes all permanent and temporary

organisational units. Permanent units include top management structures and functional departments. In the Organization Competence Baseline the following functional departments are referenced:

- Business;
- Finance;
- Health, safety, security & environment (HSSE);
- Legal;
- Personnel management;
- Systems and products and technology.

In addition, a permanent portfolio organisation may be used for coordinating the temporary programme and project organisations. For the purpose of this document, the smallest unit in an organisation shall be a team with a common goal or task. Several teams, each fulfilling a specific function within an organisation, could be grouped into a department. If necessary, departments could be grouped into a division. Organisations can be seen as a group of interrelated organisational units, which are arranged for achieving long-term strategic objectives.

Organisations can be viewed from various perspectives. One is to look at it as an orderly arrangement of structures, typically shown in organisation charts with descriptions of roles, authorities and responsibilities, defining the hierarchy of all people involved. Another perspective is to see an organisation as an arrangement of processes, transforming input into output. The (work) flow of all processes defines the value creation from customer expectation through to the delivery. Other perspectives emphasise the communication and information flows between the people in an organisation, the power and politics often causing conflicts and disturbances or the different cultures within or between organisations.

This is why organisations are often referred to as 'social systems'. A further perspective is that of organisational change and the evolutionary development path of an organisation. All perspectives are important to consider while analysing or developing an organisation. Looking only at one perspective (e.g. the process), risks the danger of missing important information and compromising decisions.

7.3.3 From Mission, Vision and Strategy to Results

The employees or members of an organisation need answers to crucial questions such as 'What is the purpose of our organisation?', 'What do we want to achieve?' or 'How do we want to achieve this future state?' This gives orientation and motivation to their work. It is the job of the top management to provide answers to these kinds of questions. Therefore, one of their primary tasks is to develop and communicate the mission, vision and strategy.

A mission defines the fundamental purpose of an organisation, why it exists and what it does. The vision clarifies what the organisation wants to achieve in future. This future state can be mid-term or long-term (five years or more). The vision statement should be formulated positively, attracting or inspiring people to follow. The strategy shows how the vision should be realised. It gives direction and focus to the stakeholders in and around an organisation (e.g. shareholders, customers and partners).

Developing the mission, vision and strategy is an intensive process. Key personnel and stakeholders should be engaged in such a process by top management. The process usually starts with a strategic analysis, looking at the present situation, past and future developments in the organisation's context, using scenario modelling techniques or other methods. Next, the organisation's own position and the

position of all relevant competitors are analysed and compared, considering current strengths and weaknesses as well as future opportunities and threats in comparison with competitors. Strategy development can be done in various ways: 'top-d and/or in 'bottom-up' approaches or 'emergent strategy development'. At the end of this process it should be clear to all stakeholders how the organisation intends to achieve its vision. Strategies guide day-to-day activities towards the long-term vision.

Through strategic planning, an organisation defines its strategic objectives, metrics and Key Performance Indicators (KPIs), taking into account available resources and capabilities. Typically, projects and programmes are the means for implementing strategies. Therefore, projects and programmes need to be aligned with the strategy and the strategic goals. The Balanced Scorecard could be used as a tool for 'translating' the strategic goals from strategy to the project perspective. The same approach can be used for monitoring and controlling the strategy implementation in projects as well as performance reporting based on the defined KPIs.

Projects are intended to deliver desired results. At the end of a project it is normal to check whether the deliverables are consistent with the specification, on time and within budget. But this is not the whole story; there are other questions to ask to see whether the project results met the stated objectives as perceived by the stakeholders. Did the project deliver results in the most efficient way, using scarce resources effectively? Did the results contribute to the overall strategy? Did the project satisfy stakeholders, such as customers, suppliers and employees? The results of projects (e.g. manufacturing equipment) and the outcomes of programmes (e.g. strategic change) are often used in an organisation over a long period of time. An organisation's top management needs to look far beyond the end of specific projects and programmes to check whether the desired benefits are achieved and are helping to meet the mission, vision and strategy in a sustainable way. It is also important that effectiveness ('doing the right projects') and efficiency ('doing the projects right') are considered.

7.3.4 Projects, Programmes and Portfolios as Means for Results

The Professional Competence Baseline (PCB) defines a project as 'a unique, temporary, multi-disciplinary and organised endeavour to realise agreed deliverables within predefined requirements and constraints'. ISO 21500 highlights processes in its definition: 'A project consists of a unique set of processes consisting of coordinated and controlled activities with start and end dates, performed to achieve project objectives'. It defines project management as 'application of methods, tools, techniques and competencies to a project including the integration of the various phases of the project lifecycle.'

The Professional Competence Baseline (PCB) likewise defines project management as 'the application of methods, tools, techniques and competences to a project to achieve goals.' In the Professional Competence Baseline (PCB) programmes are seen to be set up for achieving strategic goals. It defines a programme as 'a temporary organisation of interrelated programme components managed in a coordinated way to enable the implementation of change and the realisation of benefits'. Therefore, programmes are more than the sum of all deliverables of their constituent projects. They are intended to deliver benefits and outcomes on a strategic level. The lifespan of a programme is usually much longer than that of a project. Nevertheless, programmes are managed from start to end in a temporary form of organisation.

Programme management can be seen as coordinated management (methods, tools, techniques and competences) in order to implement change and realise benefits. Usually programme managers need to deal with a different complexity than project managers, sometimes even across multiple

organisations. They have to manage the complexity of all the embodied projects with their respective governance bodies and the interrelations between the various components (e.g. management of resource constraints) needs a lot more attention in a programme than in a project. Projects could be managed as stand-alone or they could be part of a programme. In addition an organisation could organise projects and programmes into portfolios, (the IPMA OCB uses the term 'portfolio' meaning 'project portfolio'). A portfolio is defined by the IPMA ICB as 'a set of projects and/or programmes, which are not necessarily related, brought together to provide optimum use of the organisation's resources and to achieve the organisation's strategic goals while minimising portfolio risk'. There could be several portfolios in one organisation (e.g. one portfolio for all ICT related projects and programmes and one portfolio for all product development projects and programmes). Portfolios could also have sub-portfolios included (e.g. all research-related activities within a product development portfolio).

The ISO 21504 defines a portfolio as 'a collection of portfolio components grouped together to facilitate their management to meet, in whole or in part, an organisation's strategic objectives'. Portfolio management is a permanent function, which is usually centralised in order to achieve a better overview of all the related activities to assist optimisation. One of the main tasks of portfolio management is to align projects and programmes with the organisation's strategy, selecting and prioritising them in order to reach the strategic goals in the most effective and efficient way ('doing the right projects right'). In some organisations, projects and programmes are managed through specific departments as part of the permanent organisation. Units such as a project management office (PMO) are used to support the execution of projects and programmes. The role of a PMO is typically to set standards (e.g. methodology, processes and tools) and guidelines for managers of the projects and programmes, to collect project management information from the projects and to consolidate these in a report for governing bodies. For example, project offices or a programme office could directly support the project or programme management team. Governance is another key function to be considered in project, programme and portfolio management.

ISO 21500 defines governance in general as a 'framework by which an organisation is directed and controlled.' Project-oriented governance consequently includes those areas of governance that are specifically related to project, programme and portfolio management activities, e.g. definition of policies and management standards, selection of processes, methodologies and tools as well as structures for reporting and decision-making. A senior executive or a steering board can perform the governance function. One of the tasks of such a governing body is to ensure that the desired goals in projects, programmes and portfolios are reached. As shown in Figure 3-3, the Balanced Scorecard could be used to breakdown strategic goals into goals for portfolios, programmes and projects. Reporting would be from bottom-up to the strategic level, using the goals and KPIs defined by the higher management levels. Whilst projects are undertaken to produce outputs/deliverables, programmes are more strategic, intended to deliver strategic outcomes and long-term benefits. Portfolios coordinate the constituent projects and programmes, optimise the use of scarce resources and align all project-related activities with organisational strategy.

7.5 Organisational Competence in Managing Projects

This section describes the concept of organisational competence in general and the concept of organisational competence in managing projects in particular. It includes a high-level view of the competence elements and the interaction with and influence of an organisation's external and internal

contexts. It also discusses the need to monitor the performance of projects and programmes, and what can be used to assess project or programme performance. As mentioned above, the Organisational Competence Baseline is not a textbook or cookery book, the focus is rather on what to do and not on how to do it. Each organisation needs to tailor the concept to its specific needs and abilities.

7.5.1 Concept of Organisational Competence

ISO 17024 defines competence as the 'ability to apply knowledge and skills to achieve intended results.' The Professional Competence Baseline (PCB) expands the definition to 'the application of knowledge, skills and abilities in order to achieve the desired results.' Both definitions are aimed at individuals. Nevertheless, the concept of competence can also be applied to groups of people (e.g. project teams, departments, organisations, networks or societies). In these cases, competence is much more than the collective competence of its individuals. The coherence of that group with all the dynamic interactions between the members and relevant stakeholders constitutes a social system.

There is a rich heritage that supports the concept of organisational competence. One of these concepts, that of 'core competences', can be summarised as differentiated skills, complementary assets and routines, providing the basis for a firm's competitive capacities and sustainable advantage. Other concepts highlight the inherent capabilities of an organisation to reach stakeholder-specific and situation-dependent goals. This OCB capability consists of the situation-specific combination of all possible individual-based, structure-based and asset-based attributes manageable by an organisation at a time. Furthermore, the evolutionary development of organisation can be seen as an organisation's ability to integrate, build and reconfigure internal and external resources and competencies to cope with rapidly changing environments.

7.5.2. Concept of Organisational Competence in Managing Projects

This standard defines the organisational competence in managing projects as the ability of organisations to integrate people, resources, processes, structures and cultures in projects, programmes and portfolios within a supporting governance and management system. Organisational competence in managing projects is specifically aligned with the mission, vision and strategy of the organisation and is intended to achieve results as well as to ensure continuous organisational development. An organisation is shown with boundaries separating it from the external context. In the external perspective, the organisation needs to address the needs of different stakeholders, such as customers, suppliers or service providers, comply with legislation and different regulations, respond to different cultures, markets, the environment, and available resources in order to fulfil operational needs. The activities of the organisation need to be based on a solid understanding of all these contextual factors, which also need to adapt in order to meet the changing external environment. Within the organisation's boundaries, the internal context consists of many factors which are needed for organisational competence in managing projects. These include, but are not limited to:

- Governance and management systems;
- Organisational structure;
- Processes;
- Culture;
- People and teams;
- Other resources.

- a. **Governance and Management Systems:** Governance and management of projects, programmes and portfolios need to be aligned and linked with the organisation's overall governance and management system. The principles of corporate governance are translated

into the project, programme and portfolio governance system and all project, programme and portfolio management functions are linked to the organisation's management system.

- b. Organisational Structure:** An important aspect of integration in the concept of organisational competence in managing projects is the alignment of organisational structures. Alignment is needed between temporary parts of the organisation (e.g. project, programme and portfolio functionalities) and the permanent parts, between roles and responsibilities in projects, programmes and portfolio and other parts of the organisation, between internal units and units of external partners, as well as alignment of structures for communication, reporting, decision making and escalation. Such alignment will provide smooth and efficient operation through all interfaces.
- c. Processes:** The integration of internal and external processes in projects, programmes and portfolios is crucial for efficiency: this includes the alignment of product and support processes with processes used in projects, programmes and portfolios. Also, project, programme and portfolio processes need to be aligned with the relevant processes of external partners, such as customers, suppliers or regulators. Process alignment is often achieved through the synchronisation of milestones and/or quality gates.
- d. Culture:** People naturally develop a certain culture working within a social system. A culture can be defined as a set of shared views, values or beliefs, guiding people consciously or unconsciously through their actions. In international projects, the different behaviours of people from other countries can often be observed. This may cause team members to feel uncomfortable or be unsure how to react. The same applies within or between organisations. Organisations develop their own unique corporate culture embedding all the shared views, values or beliefs of the people involved. Also, within any organisation there will be variants of this corporate culture in a research department people need to have freedom to be creative; in a temporary organisation such as a project or programme a project-oriented culture will develop. Typically a project-oriented culture will have a strong focus on delivery and results, a clear team orientation, a significantly higher tolerance towards ambiguity and failures, extroversion and open exchange of knowledge. People working within a project-oriented culture need to take account of the cultures of internal and external partners in order to build effective working relationships, and avoid conflicts. Top management should seek to encourage a project-friendly corporate culture, allowing the temporary project and programme teams to create an effective working environment within the permanent parts of the organisation. Acknowledging the different cultures in an organisation and encouraging communication about the differences will help to develop cultural awareness and to align permanent and temporary parts of the organisation as well achieving better cooperation with external partners.
- e. People and Teams:** Organisational competence in managing projects is built on the most important assets in an organisation the people and their individual competences. However, teamwork is essential for effective and efficient project delivery. Project, programme and portfolio managers need to build effective teams of individuals who are competent working in a team environment and can communicate effectively with internal and external stakeholders. The competence requirements should be defined for all project, programme and portfolio managers, team members and staff interacting with projects, programmes and portfolios. Recruiting and competence development activities should be based on the defined competence requirements, which support the development of organisational competence in managing projects.

- f. **Other Resources:** Those relevant to projects, programmes and portfolios include, but are not limited to, finance, intellectual property rights, material, equipment, and facilities. Resources and their availability need to be taken into account in developing organisational competence in managing projects.

Organisational competence in managing projects develops in response to many factors over time. Triggers include external events such as economic turbulence or the availability of new methods in the field of project management. An internal occurrence might be, for example, the arrival of a newly-hired project management professional who might organise the project in a more effective way. Furthermore, organisational learning and continuous improvement activities may improve organisational competence in managing projects. An organisation will mature through these triggers, following an evolutionary development path.

Top management has a crucial role in analysing the current status quo of organisational competence in managing projects. It needs to set clear objectives for future developments (e.g. strategic goals for project management including those for effectiveness, efficiency and overall performance), and must implement appropriate action. Top management should set, and proactively implement, standards for organisational competence in all project management elements. It should monitor and control the application of standards and encourage sustainable development. This includes, but is not limited to, using lessons learned from previous projects, building communities of practice for project, programme and portfolio personnel, exchanging experiences and benchmarking organisational competence in managing projects with internal and external partner organisations.

In the Professional Competence Baseline (PCB) these influences on the management of projects, programmes and portfolios are identified as the 'Perspective' area (see Figure 4-2). Most of the influences described above (a, b, c and f) are grouped under 'Strategy (Perspective 1)' and 'Governance, structures and processes' (Perspective 2). The organisation's external context is described in 'Compliance, standards and regulations' (Perspective 3), and Culture (d above) under 'Culture and values' (Perspective 5). Moreover, all ICB competences ('Perspective' as well as 'People' and 'Practice') are about individual competences (e above). Top management should promote the concept of project excellence.

Excellent projects must demonstrate excellent performance in all project management aspects, including the management of people, purpose, processes, resources and results. Results are only credited insofar as they are a consequence of leadership and management processes. Excellent projects apply the approaches and methods of project management in professional and innovative ways, reflecting on their own approach, methodologies and results in order to learn from them, and taking actions for improvement when necessary. Excellent projects lead to an added value beyond the actual project goals. Thereby, they enrich businesses, societies, the environment, etc.

The model is divided into the following three areas:

- **People & Purpose:** This area is considered to be the foundation of project excellence. The right people, led and supported by excellent leaders, all sharing a common vision for success, are crucial to drive project improvements and help the project to go beyond the established standards.
- **Processes & Resources:** This area represents practices necessary to reinforce excellence through sound processes and adequate resources used in an efficient and sustainable way.

It also serves as a basis for securing the outcome of innovation, turning it into a solid starting point for another wave of improvements.

- **Project Results:** The project management approach can only be excellent if it leads to outstanding, sustainable results for all key stakeholders. This area complements the first two with necessary proof of excellent results as defined by the project stakeholders.

Top management should also monitor and control the mid- and long-term results of all programmes (e.g. benefits realisation, organisational changes) and portfolios (e.g. financial results, use of critical resources) in contributing to the mission, vision and strategy of the organisation.

7.5. Groupings, Competence Elements and Interactions

This section starts with a discussion of the grouping of the competence elements. There follows a high-level description of each element and an explanation of how these interact.

7.5.1. Grouping of competence elements

The grouping of the competence elements is based on the concept of organisational competence in managing projects shown in the Figure. In Figure below, the five groups and their competence elements are shown in context and are described in more detail below.



Source: International Project Management Association Organizational Competence Baseline

The first group of competence elements is project, programme and portfolio governance (Group G). It is that part of corporate governance that concerns projects, programmes and portfolios. Usually, project, programme and portfolio governance is the responsibility of top management or steering boards. It includes, but is not limited to, the provision and effective communication of strategic views, policies, guidelines, leadership, decisions, monitoring and controlling of performance and direction of sustainable development of the organisational competence in managing projects.

Project, programme and portfolio governance [Group G] contains:

- Project, programme and portfolio mission, vision, strategy [G1];

- Project, programme and portfolio management development [G2];
- Leadership [G3];
- Performance [G4].

The second group of competence elements is project, programme and portfolio management [Group M]. It is that part of the organisation's management system concerning projects, programmes and portfolios. It is the responsibility of management functions at different levels, either in permanent or temporary parts of the organisation. There are competence elements for the management of projects, programmes and portfolios, which are supported by teamwork and effective communication.

Project, programme and portfolio management [Group M] contains:

- Project management [M1];
- Programme management [M2];
- Portfolio management [M3].

The third group of competence elements is project, programme and portfolio organisational alignment [Group A]. It is a group of competences that relates to ensuring alignment between key organisational and project, programme and portfolio management elements. It is undertaken by project, programme and portfolio managers with support of other functional managers. In this group, there are competence elements for the alignment of processes, structures and cultures of projects, programmes and portfolios with both internal and external parties. These are supported by teamwork and effective communication.

Project, programme and portfolio organisational alignment [Group A] contains:

- Processes alignment [A1];
- Structures alignment [A2];
- Cultures alignment [A3].

The fourth group of competence elements is project, programme and portfolio resources [Group R]. It relates to top management's overall goals and expectations for resource availability and utilisation. It is undertaken by project, programme and portfolio management together with other support functions, (e.g. finance, legal, purchasing, technology). In this group, there are competence elements for defining the requirements for resources, the current state of resources, the acquisition of suitable resources and their development.

Project, programme and portfolio resources [Group R] contains:

- Resource requirements [R1];
- Resource state [R2];
- Resource acquisition [R3];
- Resource development [R4].

The fifth group of competence elements is project, programme and portfolio people's competences [Group P]. It relates to top management's overall goals and expectations for people competences, including teamwork, communication, performance and recognition. It is undertaken by the project, programme and portfolio management supported by HR management together with other functional managers. There are competence elements for the people's competence requirements, the current state of people's competences, the acquisition of suitable competences and their sustainable development.

Project, programme and portfolio people's competences [Group P] contains:

- People's competence requirements [P1];

- People's competences state [P2];
- People's competences acquisition [P3];
- People's competences development [P4].

7.5.2. Overview of Competence Elements

This section presents an overview of the competence elements. More detail is provided at Annex A.

Project, Programme and Portfolio Mission, Vision, Strategy [G1].

The long-term development of an organisation's competence in managing projects should be directed by its project, programme and portfolio mission, vision and strategy that are based on the organisation's mission, vision and strategy. The project, programme and portfolio mission defines the rationale and purpose of its functions. The vision explains the intended goals and objectives of the project, programme and portfolio functions, providing direction and focus to its members and other stakeholders. Project, programme and portfolio strategy shows how the vision should be realised. Top managers, together with senior executives and project, programme and portfolio managers, establish, communicate, monitor and control the project, programme and portfolio mission, vision and strategy. Project, programme and portfolio managers and staff act accordingly.

Project, Programme and Portfolio Management Development [G2]

Project, programme and portfolio management needs to be continuously developed, responding to changing conditions in the internal and external context and environment. All development activities should be guided by the project, programme and portfolio mission, vision and strategy and enable the organisation to satisfy stakeholder needs. Project, programme and portfolio management can be developed using various methods. These include reviewing lessons learned and the exchange of experiences in other projects or programmes. The benchmarking of organisational competence in managing projects using internal and external partners is helpful. Innovation sessions to explore new ideas can be productive. Top managers, together with senior executives, set and communicate targets and provide resources and support for the project, programme and portfolio management development. Project, programme and portfolio managers and staff undertake development activities.

Leadership [G3]

Based on the project, programme and portfolio mission, vision and strategy, all management levels should be actively involved in project, programme and portfolio management: showing commitment, providing leadership and seeking to continuously developing the project, programme and portfolio management system and personnel. An organisation's leadership is shown by defining and communicating clear goals for projects, programmes and portfolios. Expectations are clarified for their management. The organisation needs to provide the resources for all projects, programmes and portfolios activities and establish comprehensive communication with all stakeholders. A robust decision-making process with defined regulations and guidelines for issue and decision escalation should be put in place. Top managers with senior executives provide leadership through effective communication and their governance functions. Project, programme and portfolio managers lead the assigned staff members who then act accordingly.

Performance [G4]

In a competitive environment, organisations strive to achieve a high degree of performance in the management of project, programme and portfolio. They achieve the project, programme and portfolio goals in an effective and efficient manner by mobilising people and resources to best effect to meet the organisation's mission, vision and strategy. Project, programme and portfolio management needs to meet the performance targets set and communicated by top management or senior executives. Targets can focus on the performance as well as the management of projects, programmes and portfolios (e.g.

through the optimisation of resources between projects). Performance should be monitored and controlled using KPIs. Information and document management systems should support the management and performance reporting. Top managers, together with senior executives, set performance targets. They monitor and control these targets on a regular basis. Project, programme and portfolio managers and staff act accordingly, record and report back to top management.

Project Management [M1]

An organisation performs projects in order to reach desired results. Therefore, it should have a project management standard (e.g. processes, methods, tools), which enable the project, programme and portfolio mission, vision, and strategy. These standards are part of the organisation's management system. Project management is performed by teams of people using effective communication and processes. ISO 21500 describes a full set of such processes from project initiation through to the closing of a project. Each project is unique, therefore project management standards should be tailored to the needs of each project. Specific regulations and guidelines should be available showing project, programme and portfolio managers and staff how to use the project management standards. Top managers, together with senior executives, define and communicate their expectations for project management standards. Often, the executives directing project management activities (e.g. project management director) are responsible for the development of such standards. Project, programme and portfolio managers and staff act accordingly and participate in continuous improvement.

Programme Management [M2]

An organisation conducts programmes in order to realise strategic benefits. It should have programme management standards (e.g. processes, methods, tools) enabling the project, programme and portfolio mission, vision and strategy. These standards are part of the organisation's management system. Through programme management, constituent projects are coordinated so that the desired benefits of the programme are achieved. This includes, but is not limited to, initiating, planning, controlling and closing of projects as well as allocating the necessary resources. Regulations and guidelines should be available showing project, programme and portfolio managers and staff how to use and tailor the programme management standards. Teamwork and effective communication are considered to be essential competences. Top managers, together with senior executives, define and communicate their expectations for programme management standards. Often the executives directing programme management activities (e.g. project management director) are responsible for the development of such standards. Project, programme and portfolio managers and staff act accordingly and participate in continuous improvement.

Portfolio Management [M3]

Through portfolios an organisation manages projects and programmes in a coordinated way. It should have portfolio management standards (e.g. processes, methods, tools) which enable the project, programme and portfolio mission, vision and strategy. These standards are part of the organisation's management system. Through portfolio management, the constituent projects, programmes and/or sub-portfolios are coordinated so that the project, programme and portfolio mission, vision, and strategy are achieved. This includes, but is not limited to, selecting, initiating, monitoring and controlling projects and programmes as well as allocating the necessary resources. Regulations and guidelines should be available showing project, programme and portfolio managers and staff how to use these portfolio management standards. Teamwork and effective communication are considered to be essential competences. Top managers, together with senior executives, define and communicate their expectations for portfolio management standards. Often the executives directing project management activities (e.g. project management director) are responsible for the development of such standards. Project, programme and portfolio managers and staff act accordingly and participate in continuous improvement.

Process Alignment [A1]

Projects, programmes and portfolios are performed by people using processes. The processes used for their management should be aligned with those of relevant internal parties (including operations and support) and external parties (including clients and suppliers). Alignment aims ensure the effective and efficient delivery of project, programme and portfolio goals and performance targets through the coordination of processes across relevant internal and external parties. Alignment is supported by teamwork and effective communication. Internal and external processes relevant to the management of projects, programmes and portfolios should be identified to all relevant managers and staff. The organisation should have regulations and guidelines available for the alignment of processes identifying all interfaces (e.g. milestones) and how processes used should be aligned. A continuous improvement cycle should be applied to the process alignment. Top managers, together with senior executives, define and communicate their expectations for process alignment. Usually, the executives directing project management activities (e.g. project management director) are responsible for the development of appropriate regulations and guidelines. Project, programme and portfolio managers and staff act accordingly and participate in continuous improvement.

Structural Alignment [A2]

Projects and programmes are typically managed using a temporary organisation whereas portfolios are managed by a permanent function. Organisational units and functions involved with the management of projects, programmes and portfolios should be aligned with relevant internal and external parties. Alignment aims to ensure the effective and efficient delivery of project, programme and portfolio goals and performance targets set by top management. Alignment is supported by teamwork and effective communication. Internal and external organisational units and functions relevant to the management of projects, programmes and portfolio (e.g. project, programme and portfolio roles, teams, project management office, steering boards) should be identified to project, programme and portfolio managers and staff. The organisation should have regulations and guidelines available for the alignment and effectiveness of structures identifying all interfaces and how structures used should be aligned. Structural alignment should be regularly reviewed and action taken to maintain alignment. Top managers, together with senior executives, define and communicate their expectations for structural alignment. Usually, the executives directing project management activities (e.g. project management director) are responsible for the development of appropriate regulations and guidelines. Project, programme and portfolio managers and staff act accordingly and participate in continuous improvement.

Cultural Alignment [A3]

Projects, programmes and portfolios are performed within a specific cultural environment, which influences the behaviour of the people managing them. Project, programme and portfolio cultures should be aligned with cultures of relevant internal and external parties. Alignment aims to ensure the effective and efficient delivery of project, programme and portfolio goals and performance targets set by top management. Alignment is supported by teamwork and effective communication. The cultural environment (e.g. values, visions, norms, symbols, beliefs and ethics) of internal and external organisational units relevant to the management of projects, programmes and portfolios should be identified to project, programme and portfolio managers and staff. The organisation should have regulations and guidelines available for cultural alignment identifying how cultures could be aligned. Cultural alignment should be regularly reviewed and action taken to maintain alignment. Top managers, together with senior executives, define and communicate their expectations for cultural alignment. Usually, the executives directing project management activities (e.g. project management director) are responsible for the development of appropriate regulations and guidelines. Project, programme and portfolio managers and staff act accordingly and participate in continuous improvement.

People's Competence Requirements [P1]

Projects, programmes and portfolios are performed by people. In order to meet the organisation's project, programme and portfolio mission, vision and strategy, the competences required of managers, team members and personnel involved with projects, programmes and portfolios should be clearly defined, including teamwork and communication. People undertaking projects, programmes and portfolios need to meet certain competence requirements. The IPMA Individual Competence Baseline (IPMA ICB®) defines a full set of individual competences for several project, programme and portfolio roles. An organisation should define the qualitative and quantitative requirements for people's competences (e.g. competence matrix, role description, HR and succession planning) for all people involved in projects, programmes and portfolios, based on the project, programme and portfolio mission, vision and strategy. Top managers, together with senior executives, define and communicate their overall goals and expectations for project, programme and portfolio people's competence requirements and set standards. The HR department is usually responsible for establishing appropriate regulations and guidelines. Together with the executive directing the project management activities, the HR department defines, plans and controls these competence requirements.

People's Competences State [P2]

The current state of an organisation's people's competences should be identified against the defined people's competences requirement. A comparison between the defined requirement and the current state of people's competences will enable strengths and areas for improvement to be identified at individual, team and organisational level. The organisation should plan how to exploit identified strengths and how to improve others. For an individual this includes training and development, coaching and mentoring. For the organisation, this includes the acquisition of competent staff as well as training and development programmes for existing staff. Top managers, together with senior executives, define and communicate their overall goals and expectations regarding the state of people's competences and set standards. The HR department is usually responsible for establishing appropriate regulations and guidelines, and conducting competence assessments, typically with the help of the executive directing project management activities and supported by project, programme and portfolio managers and staff.

People's Competences Acquisition [P3]

Organisations must have the right people with the right competences available for their projects, programmes and portfolios. Therefore, organisations should take appropriate action to acquire people with the right competences to achieve their project, programme and portfolio mission, vision and strategy. The organisation should identify suitable sources, internally or externally, from where to acquire the right people with the right competences to fulfil the project, programme and portfolio mission, vision and strategy. Organisations should ensure their acquisition processes (e.g. recruiting and contracting) are effective and efficient. The people should be selected against pre-defined competence requirements, which should also be used for assignments. Top managers and senior executives define and communicate their overall goals and expectations for project, programme and portfolio people's competences acquisition. The HR department is usually responsible for establishing appropriate regulations and guidelines as well as acquisition/recruitment. Project, programme and portfolio managers often support the acquisition/recruitment process.

People's Competences Development [P4]

The competences of people deployed in projects, programmes and portfolios need to be developed against the defined competence requirements in order to achieve the project, programme and portfolio mission, vision and strategy. Competence development also satisfies people's expectation for personal development. The organisation should provide a framework together with regulations and guidelines for the development of competences. It should show career development opportunities and the available approaches for developing competences (e.g. coaching, training, mentoring, on-the-job training,

simulation and certification). Development targets should be derived from the competence requirements and agreed between an individual and their managers. Top managers, together with senior executives, define and communicate their overall goals and expectations for project, programme and portfolio people's competence development and provide active support and resources. The HR department, often supported by the executive directing project management activities, is usually responsible for establishing the framework, regulations, and guidelines, as well as ensuring the provision of development opportunities. Project, programme and portfolio managers should support the competence development of their staff.

Resource Requirements [R1]

Projects, programmes and portfolios require resources (e.g. financial resources, know-how, materials and energy). Resource needs should be clearly defined in order to fulfil the project, programme and portfolio mission, vision and strategy. The organisation should identify the short, mid and long-term resource requirements for all projects, programmes and portfolios and compare these needs with currently available resources. The gaps between available and required resources show where effort may be required for resource acquisition and development. Top managers, together with senior executives, define and communicate their overall goals and expectations for resource requirements. Often specific functional departments (e.g. purchasing, finance and legal) are responsible for establishing appropriate regulations and guidelines and for defining the requirements. Project, programme and portfolio managers and staff can support this role.

Resource State [R2]

The current state of available resources should be identified against the defined requirements. A comparison between the identified requirements and the current state of available resources will enable any gaps to be identified. The organisation should plan how to satisfy the identified resource gaps which includes the acquisition of required resources and the development of existing resources. Top managers, together with senior executives, define and communicate their overall goals and expectations for identifying the current resource state. The relevant functional departments are responsible for establishing appropriate regulations and guidelines and identifying the current resource state. Project, programme and portfolio managers and staff can support the identification process.

Resource Acquisition [R3]

Organisations need to have sufficient resources (e.g. financial resources, know-how, assets, and support services) to undertake their projects, programmes and portfolios. Organisations should take the appropriate action for the acquisition of missing resources to achieve their project, programme and portfolio mission, vision and strategy. The organisation should identify potential sources (e.g. suppliers and service providers), from which to acquire the resources to fulfil the project, programme and portfolio mission, vision and strategy. Organisations should ensure their acquisition/contracting processes are efficient and effective. The selection of resources should be based on pre-defined requirements which should also be used to determine the allocation of resources to projects, programmes and portfolios. Top managers, together with senior executives, define and communicate their overall goals and expectations for resource acquisition. The purchasing department, with support of the executive directing project management activities and other functional departments, are usually responsible for establishing appropriate regulations and guidelines as well as performing the acquisition. Project, programme and portfolio managers may support the acquisition process.

Resource Development [R4]

Resources necessary for projects, programmes and portfolios need to be developed in order to meet resource requirements. These are needed to deliver the project, programme and portfolio mission, vision and strategy. The aim is to secure resource availability and utilisation in a sustainable manner. The organisation should provide a framework together with regulations and guidelines for developing resources. This includes measures such as integrating external partners into the organisation's supply chain, utilising internal support functions (e.g. financial, legal and ICT functions) as well as acquiring required know-how to implement projects, programmes and portfolios. Top managers, together with senior executives, define and communicate their overall goals and expectations for resource development and provide active support and resources. The relevant functional departments are responsible for establishing regulations and guidelines and developing the required resources. Project, programme and portfolio managers can support the development process.

7.5.3. Interactions of Competence Elements

The Organisational Competence Baseline is a complex model with various interactions between the component elements. These interactions should be considered whilst developing the organisational competence in managing projects. An analysis of the interactions has shown that the competence elements, project, programme and portfolio mission, vision and strategy, project, programme and portfolio development and leadership have the greatest impact on all other competence elements. They can be seen as the main enablers for an organisation, setting the framework and directing activities within projects, programmes and portfolios. The focus for developing organisational competence in managing projects should be on these three competence elements. The following competence elements were seen to be strongly influenced by others: performance, project management, programme management and portfolio management. These need to be constantly reviewed and updated to maintain alignment.

7.6. Development of the Organisational Competence in Managing Projects

Organisations are subject to constant change. Change may be caused by external factors (e.g. new technologies, economic cycles and legislation) or internal factors (e.g. new products or services, mergers and acquisitions). All changes require the organisation to react in order to ensure its longterm survival and success. An organisation is considered successful if it achieves its annual goals over the long term for the benefit of all stakeholders. Considering an organisation as a social system with evolutionary processes as found in nature is a useful way to explain organisational development. According to the theory of evolution, natural selection drives development in the natural world. In the long run, only those organisms that are able to adjust to their environment survive.

The same principles can be applied in the economic world, where organisations must constantly adjust to changing conditions. Only organisations that are successful in adjusting to change by finding solutions to new challenges survive and succeed. These solutions must work within the context and resources available at any point in time. Therefore, organisations should regularly analyse their context and environment, identify relevant trends and develop their strategies, processes, structures, culture and competences accordingly. Top management's main responsibility, especially in project-oriented organisations, is to identify changes in the environment and to initiate appropriate action to develop the organisational competence in managing projects, with the support of senior executives, managers and staff.

7.6.1. Organisational Competence Development Classification

This uses the concept of competence classes to help assess the current project management competence state of an organisation and follows a similar approach as other assessment systems such as the European Foundation for Quality Management (EFQM) and Capability Maturity Model Integration (CMMI) in the definition of the classes. In general, development of competence can be seen to follow a

development path from initial, through defined, standardised, managed and optimising. However it should be noted that not all organisations need to aspire to the optimising class. The appropriate class for any particular organisation depends on the business need, and the competitive environment in which it operates.

a. Initial Class: In the initial class, the organisational competence in managing projects is primarily focused on achievements at a personal level. There are individuals and projects performing well, but overall performance is coincidental. Project results often exceed budget and time frame and deliver only part of the agreed output. No real vision and no processes or structures related to project, programme and portfolio are present at the level of the organisation.

There are almost no formal project, programme and portfolio standards in place. There might also be a tendency to overburden and/or abandon the management processes for projects, programmes and portfolios in times of severe crisis. There may be no ability to repeat successes. In this situation, experienced project managers can have positive effects on project, programme and portfolio management. Top management should start development from the initial class by initiating a development programme, supported by senior executives, project, programme and portfolio managers and staff.

Executives directing project management activities (e.g. project management director, project management office director) can act as project owners for the competence development programme. If such posts do not exist in an organisation, then top management need to appoint a project management director or allocate the role to existing senior staff. The main enablers for the development programme are leadership support and the ability to lead change. The IPMA OCB can act as a framework (Table 6.1) for developing the organisational competence in managing projects. In the development of organisations from the initial class the main focus is on structuring individual projects and developing the knowledge of project, programme and portfolio personnel and their functional line managers. The primary stakeholder, the project owner, needs to be fully engaged in managing stakeholders, both internally and externally, defending and promoting the benefits of the project.

b. Defined Class: In the defined class, project, programme and portfolio standards are partially in place. They are applied for each project but are not yet under management control. Project management is mostly delegated to the various organisational units, and there is no organised development. Functional line managers involved with projects are generally poorly prepared and facilitated to perform their roles. Project results are below the benchmark of successful projects (in budget, time and performance). Projects are partially planned and executed in accordance with the standards; they deploy competent people having adequate resources to produce controlled outputs.

The disciplined application of project management processes helps to ensure that existing practices are maintained during times of stress. With these practices in place, projects are more likely to perform and be managed in accordance with documented plans. The status of these projects is visible to management at defined points (e.g. at major milestones). Development of organisations from the defined class focuses on completing the required project management standards. Improvements are made in the understanding and application of the standards.

Management control is initiated at the project level in relation to the development and application of the standards. The organisation starts to define and introduce centralised management structures to govern and manage projects. Key stakeholders, such as the project owner, suppliers and users, need to be engaged in most projects. They manage internal and external stakeholders. They defend the project, promote the benefits and provide the required resources and specifications.

c. Standardised Class: In the standardised class, the project, programme and portfolio standards are mostly in place and have been communicated to all stakeholders. The project, programme and portfolio standards are partially applied by project, programme and portfolio staff and are under management control. Governance and management systems are applied to control most individual projects and programmes. Centralised functions for project and programme management are set up, acting as a competence cluster.

Project and programme competence is measured and developed. Functional line management is prepared and facilitated to perform its roles in projects. Resource management is introduced at the project, programme and portfolio levels. Internal stakeholders – the project owner, suppliers, future users and support functions – need to be engaged in managing internal and external stakeholders. They defend the project, promote the benefits and provide the required resources, specifications and support. Project and programme results meet the benchmark of successful projects and programmes – within budget, on time, to the required performance and to stakeholder's satisfaction.

Project management processes, methods and tools are well characterised and understood. These standard processes are used to establish consistency across the organisation and improve collaboration. Projects adapt their own processes based on the organisation's set of standard processes according to tailoring guidelines. All project management is planned and executed in accordance with the standards; they fully deploy competent people who have adequate resources to produce controlled outputs. The standards, structures and processes ensure consistent application throughout the organisation and minimise risk during periods of stress. Project results are at the benchmark with comparable organisations. Projects, programmes and portfolios are predictable and performing in accordance with documented plans. Top management and all senior management levels are actively involved in project management, demonstrating real commitment.

Development of organisations from the standardised class focuses on achieving the full understanding and application of all project, programme and portfolio standards and the alignment of the organisation with the project, programme and portfolio environment. Project, programme and portfolio control is fully in place, including management structures to govern and manage projects in portfolios or programmes.

However, further optimisation may be needed. All internal stakeholders, such as the project owner, suppliers, users and support functions, need to be engaged in nearly all projects. They manage internal and external stakeholders. They should be defending the project and promoting the benefits. They should be providing the required resources and specifications. In addition, all critical external stakeholders who could cause significant disruption should also be involved.

d. Managed Class: In the managed class, project, programme and portfolio standards are fully comprehensive, in place and are largely applied. Governance and management systems are applied to partially control most individual projects, programmes and portfolios as well as their joint outputs and outcomes against the organisation's strategy. The competence cluster acts as a centre of expertise and is seen as a career path for young professionals in the organisation. Project, programme and portfolio competence is developed and aligned with the organisation's needs. Strengths and weaknesses are identified on a regular basis and corrective action taken when needed. HR and senior management are involved in the development of project, programme and portfolio managers. Functional line management is evaluated and appraised for its role in projects. Resource management is fully aligned with project, programme and portfolio requirements and teams are reallocated at the end of projects. Project results are substantially above the benchmark of successful projects and programmes – within budget, on time, with high performance and to the satisfaction of stakeholders. Any portfolio budget overrun is limited to

the benchmark. In general the tolerance for the portfolio budget variance is much smaller than the tolerances per project. The objectives for competence are based on the needs of the organisation and stakeholders such as customers, end users, shareholders and employees. Quality is understood and managed for projects, programmes and portfolios. Performance baselines and models are used in order to set quality objectives that help to achieve business objectives.

Development of organisations from the managed class focuses on maintaining and applying state of the art project, programme and portfolio standards. Project, programme and portfolio governance and management systems are well-aligned with the permanent organisation, with the project, programme and portfolio organisation and with the competence development organisation. External stakeholders are fully involved with the project, programme and portfolio management systems which are effective, but may still offer opportunities for efficiency improvement. All internal stakeholders, such as the project owner, suppliers, users and support functions, need to be engaged in all projects. They should be managing the internal and external stakeholders, defending the project and promoting the benefits and providing the required resources and specifications. In addition all relevant external stakeholders need to be involved, contributing to stakeholder satisfaction.

e. Optimising Class: Optimising is continuous improvement. In the optimising class, project management standards, structures and processes are fully implemented and applied within the organisation. The project, programme and portfolio system, as well as the organisation in relation to the project, programme and portfolio environment, is under continuous review and improvement. The project, programme and portfolio standards and their application are under continuous development within a support structure. Standards and their application may be tailored to the specific needs of a project or programme. Top management and all senior management levels are actively involved in project management. There may even be a chief projects officer on board level. Top management and all senior executives set goals for project management and they align vision, mission and strategy with the management of project management. They control all respective activities.

Governance focuses on the alignment of projects to organisational vision, mission and strategy and changes in the environment. They take those measures necessary to keep the internal organisation capable of implementing change effectively. The organisation uses a quantitative approach to understand the variation inherent in the project, programme and portfolio process and the causes of outcomes. The main tasks at the strategic portfolio level are setting KPIs and priorities as well as evaluating consolidated organisational achievements and progress. Management controls individual projects, programmes and portfolios as well as their joint outputs and outcomes against the organisation's strategy. The project, programme and portfolio competence cluster is the centre of expertise and is seen as a career line for young professionals in the organisation. It maintains good relations with all stakeholders involved in projects, programmes and portfolios. HR and project, programme and portfolio competence management.

Functional management actively manages project management competence development. All staff members are competent in and committed to their roles in projects and continuous personal development. Interrelationships with functional line management roles are well addressed and resource management well aligned to maintain this. Project results fully meet the agreed plans and most projects and programmes are successful with respect to budget, time and performance. Stakeholders are satisfied. Governance and management systems are fully informed, in control of managing priorities and managing change. Portfolio budget management is within very tight tolerances.

Continuous development of organisations in the optimising class focuses on maintaining and applying state of the art ways of working, allowing tailoring for the benefit of specific projects, programmes or portfolios. The organisation's quality and performance objectives are established and continuously

revised to reflect changing context, business objectives and organisational performance. The permanent organisation, the project, programme and portfolio environment and the project, programme and portfolio competence development organisation are well aligned, cross-evaluate each other and contribute to audits and reviews when requested. The organisation's needs, stakeholder satisfaction and employee satisfaction are the main drivers for continuous development. The organisation is effective and balances efficiency with sustainability. All internal and external stakeholders need to be effective and efficiently engaged in all projects. They manage the internal and external stakeholders, defend the project and promote the benefits. They assure stakeholders' interests and contribute to the project's success.

7.6.2. Organisational Competence Assessment

To assess organisational competence in managing projects, considers the scope of the organisation to be the collection of people and resources involved in, and connected to, projects, programmes and portfolios those dedicated to achievement of the organisation's project, programme and portfolio strategy. The assessment process starts with the competence classification of the organisation in scope. The organisation indicates which class it is in now and which class it would like to achieve in the near future. This indicates to the assessment team which questions from the database are appropriate to use to check the relevant standards, their application and the management surveillance systems. The assessment team requests the organisation's project, programme and portfolio strategy.

This concept drove the development of the questions in the Delta assessment. Assuming an organisation has a clear mission, vision and strategy, the first step is to assess whether this is effectively translated in the project, programme and portfolio strategy to achieve the goals set by the organisation in relation to its environmental context.

Given a clear strategy, the OCB assessment verifies whether the related processes and structures enable the execution of the project, programme and portfolio strategy and support further development. During the assessment, issues related to having the right resources at the right time at the right place are also verified. The assessment seeks to establish how well the strategy, processes and structures are actually implemented in the organisation, whether staff actually understand and follow it, and whether it is reflected in the project, programme and portfolio culture of the organisation. Any gap found between the intended project, programme and portfolio strategy and its actual implementation, together with the impact of changes in the internal and external environment, drives the need for a revised version of the strategy.

Evidence of a revised strategy supports any ambition for further development of the organisational competence in managing projects. The assessment process also considers the competence of individual project, programme and portfolio staff and the performance of projects and programmes undertaken by the organisation. The assessment team selects a sample of recently completed or nearly completed projects and programmes. It takes a sample of project, programme and portfolio staff involved with them. Assessment of selected projects/programmes and individuals is by self-assessment prior to an on-site assessment of the organisational competence. The results of the projects and programmes as well as the individual assessments are used by the assessment team to guide the interview questions during the site visit. The OCB assesses the organisational competence in managing projects with three modules.

The **I-module** is for the self-assessment of individuals, the **P-module** is for self-assessment of projects and/or programmes, and the **O-module** is used to guide interviews with selected staff during the onsite visit. The **I-module** and **P-module** are used prior to the onsite visit.

The **I-module**: selected individuals (e.g. project managers, team members, support functions and other stakeholders) are assessed through a self-assessment questionnaire using PCB. There are three types of questions:

- How competent are you?
- Does the organisation recognise your competence and does it support your development?
- Does the project or programme recognise your competence and does it support your development?

The **P-module**: selected projects and programmes are assessed through self-assessments according to the process and criteria described in the PCB. There are three types of questions:

- How well is the project organised and does it perform?
- Does the organisation support the project/programme to be successful?
- Does the individual show commitment to the project/programme's success?

The results of the **I-** and **P-**questionnaires are analysed by the assessment team to prepare for the site visit with the **O-module**. The **O-Module**: the organisation's executive and senior management, project, programme and portfolio managers, staff and support functions are interviewed during an on-site visit. Every interviewee gets a selection of questions related to the function and role using a multi-dimensional questionnaire.

The **O-module** questionnaire contains questions on the various levels of operation (strategic, tactical and operational) and covers the concept as described before with a large set of questions. The assessment team plans in advance which questions to ask to whom.

The assessment report shows the class of competence for each OCB competence cluster. The actual class and the difference to the desired competence class, combined with the detailed findings, can be used to derive development needs and a long-term strategy for organisational development of projects, programmes and portfolios. The results can also be used for identifying good practice and for benchmarking against internal or external peers.

7.6.3. Organisational Competence Development Scheme

Organisational competence development is a combination of organisational learning and innovation applied to the existing project, programme and portfolio strategy, processes, structures and culture. The fact that the development of organisational competence in managing projects requires strategic commitment at top management level puts a special focus on governance and leadership. Top management needs to set direction, provide sufficient resources and involve all necessary parts of the organisation (permanent and temporary) and stakeholders. Development of organisational competence in managing projects requires a commitment to continuous development. It is not a just a one-off effort. Typically, on an annual basis the organisation assesses the current status of projects, programmes and portfolios and formulates the goals for the coming budget year. In addition, the organisation should also regularly review its medium-term objectives. This considers each of the five competence groups: project, programme and portfolio governance, project, programme and portfolio management, project, programme and portfolio organisational alignment, project, programme and portfolio people's competence and project, programme and portfolio resources. Competence development is directly related to the organisation's annual performance plan in order to achieve the organisation's KPIs and benefits. For each competence group, overall goals set by senior management are broken down into goals and activities.

The development of organisational competences should have a permanent place in the organisation. A project, programme and portfolio competence cluster/organisational unit or a project management office

(PMO) can have responsibility for the development of the organisational competence in managing projects. The PMO controls and monitors progress against the development plan as well as the management of projects, programmes and portfolios in the organisation. It is responsible for consolidating reports to senior management and communicates decisions about necessary changes to the project, programme and portfolio management. Other tasks include supporting project, programme and portfolio, managing lessons learned and proposing corrective measures for the development of the organisational competence in managing projects.

Organisational competence in managing projects requires a project-oriented culture in the organisation, particularly for people and teams who work in and around projects, programmes and portfolios. This culture needs support at all levels in the organisation and specifically from the project, programme and portfolio managers themselves. Benchmarking against external qualification systems is a key tool for organisational and individual professional development. This is done at an organisation level, at a project/programme level and at an individual professional level.

It helps to assess how well projects or programmes are performed and whether the results fulfil the expectations of various stakeholders. This assessment can be done either internally (self-assessment) or externally. The assessment results can also be used for the purpose of benchmarking. This can be undertaken internally, comparing assessment results from projects and programmes with those of other units within the organisation, or externally comparing the projects, programmes and portfolios of different organisations. The organisations chosen for benchmarking can be from the same or different sectors.

Organisational competence in managing projects is an essential requirement for larger organisations to realise the organisation's strategy. To achieve this, the organisation needs to set up processes and structures to develop projects, programmes and portfolios and their support facilities. In addition to the certification of project, programme and portfolio professionals, networking can also assist with the development of the individual as well as the group.

Project, programme and portfolio professionals should continuously develop their competence so that they can deliver the best possible results and satisfy the needs of stakeholders. Personal competence development should be aligned with annual performance and appraisal cycles. The competence development programme plan should be owned and managed by the organisation itself. Execution can be supported by suitable expert consultants.

7.7 Description of Competence Elements

This section provides a more detailed description of the competence elements outlined in OCB, including the intended users and their responsibilities and some key questions that organisations should consider.

7.7.1. Project, Programme & Portfolio Mission, Vision and Strategy [G1]

Project-oriented organisations typically achieve their objectives through projects, programmes and portfolios. The project, programme and portfolio mission, vision and strategy should direct the longterm development of the organisational competence in managing projects. The project, programme and portfolio mission defines the rationale and purpose of the project, programme and portfolio functions, (e.g. project, programme and portfolio management). An organisation's project, programme and portfolio vision explains the intended goals and objectives of the project, programme and portfolio functions, providing direction and focus to the people involved and other stakeholders, (e.g. growth rate and intended performance). The project, programme and portfolio strategy shows how the vision should be realised (e.g. project management functions and competences needed).

The starting point for the development of an organisation's project, programme and portfolio mission, vision and strategy is the organisation's overall mission, vision and strategy. The latter acts as a framework for project, programme and portfolio functions and defines the principal goals and requirements. For example, if an organisation intends to do business increasingly on a global scale, the management of projects and programmes needs to deal with an increasingly complex context and therefore needs to develop the respective organisational competences. The organisation's overall mission, vision and strategy should be updated on a regular basis. Subsequently, the project, programme and portfolio mission, vision and strategy may also need to be updated.

Reasons for updating both can include changes in the external and internal context of the organisation, insights and lessons gained through undertaking projects and programmes and the results of an evaluation of the performance of project, programme and portfolio management. Management at all levels should collect relevant information for improving the project, programme and portfolio mission, vision and strategy. Information can be provided by project, programme and portfolio managers and staff, internal and external consultants and other sources. The information should be analysed and evaluated on a regular basis and used for improving the project, programme and portfolio mission, vision and strategy.

Intended Users' Actions:

Usually, top managers, together with a team of senior executives, define an organisation's mission, vision and strategy. From there they can derive the project, programme and portfolio mission, vision and strategy, building on information and the support of project, programme and portfolio managers, consultants and staff.

Senior executives, together with an executive directing the project management activities, may establish, communicate, monitor and control the project, programme and portfolio mission, vision and strategy based on the directions given by top management. They should ask for information and the support of project, programme and portfolio managers, consultants and staff.

Project, programme and portfolio managers should use the project, programme and portfolio mission, vision and strategy to align their activities. They should collect lessons learned from projects and programmes and feed relevant information back to the executive directing project management activities, to enable continuous improvement.

Project, programme and portfolio staff should act in accordance with the project, programme and portfolio mission, vision and strategy and support all management levels by providing feedback. This should be collected through a rigorous process where lessons learned are reviewed as well as through other continuous improvement activities.

Key Questions:

- Does the organisation have a project, programme and portfolio mission, vision and strategy?
- Is the project, programme and portfolio mission, vision and strategy aligned with the organisation's overall mission, vision and strategy?
- Does top management effectively communicate the project, programme and portfolio mission, vision and strategy to all stakeholders and provide the necessary resources?
- Is the project, programme and portfolio mission, vision and strategy evaluated and updated on a regular basis?

- Does the organisation have a process for collecting, analysing and evaluating information relevant to the project, programme and portfolio mission, vision and strategy, including a lessons learned process?
- Does top management involve relevant stakeholders (e.g. project, programme and portfolio managers and staff) while developing or updating the project, programme and portfolio mission, vision and strategy?

2. Project, programme and portfolio management development [G2]

Organisations are facing increasingly changing conditions in their internal and external contexts. For example, there is a growing need for suppliers to demonstrate professional project management in order to acquire new business. This is an example of why organisations need to continuously develop their organisational competence in project management. The activities to develop project, programme and portfolio management should be guided by the project, programme and portfolio mission, vision and strategy and enable the organisation to satisfy all stakeholder needs (e.g. customers, employees and shareholders).

Objectives, aligned with the organisation's overall mission, vision and strategy, should be set and controlled by top management. The development of project, programme and portfolio management is made up of various activities including the use of lessons learned in projects and programmes, the exchange of experience in project management communities, the benchmarking of organisational competence in managing projects with internal and external partners or innovation sessions exploring new ideas.

Intended Users' Actions

Usually, top managers together with a team of senior executives define the project, programme and portfolio mission, vision and strategy. These are aligned with the organisation's mission, vision and strategy. From there they can derive and communicate the objectives for project, programme and portfolio management development, building on information and the support of project, programme and portfolio managers, consultants and staff.

Senior executives, together with an executive directing the project management activities, may initiate, facilitate, monitor and control the project, programme and portfolio management development based on the targets defined by top management. They should establish processes for developing the project, programme and portfolio management, provide necessary resources and ask for information and the support of project, programme and portfolio managers, consultants and staff. Project, programme and portfolio managers should proactively support the project, programme and portfolio management development in accordance with the mission, vision and strategy and the targets set by top management.

For example, they should collect lessons learned from projects and programmes and feed relevant information back to the executive directing project management activities to enable continuous improvement. Project, programme and portfolio staff should proactively support the project, programme and portfolio management development, for example by providing feedback from projects and programmes. Feedback should be collected through a process where lessons learned are reviewed as well as other continuous improvement activities.

Key Questions

- Does the organisation have objectives for project, programme and portfolio management development?
- Are the objectives for project, programme and portfolio management development aligned with the organisation's project, programme and portfolio mission, vision and strategy?
- Does top management effectively communicate the project, programme and portfolio mission, vision and strategy to all stakeholders and provide the necessary resources?
- Are the objectives for project, programme and portfolio management development updated on a regular basis?
- Does the organisation have a process for developing project, programme and portfolio management, collecting, analysing, evaluating and using all relevant information, including a lessons learned process?
- Are all stakeholders (e.g. project, programme and portfolio managers and staff) actively involved during the project, programme and portfolio management development?

7.7.3. Leadership [G3]

Projects and programmes are undertaken by people. Therefore, leadership is essential for effective project, programme and portfolio management in organisations. All management levels top management, senior executives, line managers and project, programme and portfolio managers, as well as the executive directing the project management activities should be actively involved in the leadership of project, programme and portfolio management.

They should clearly demonstrate their commitment to achieve the organisation's project, programme and portfolio mission, vision and strategy. This should be done through effective communication with all stakeholders, proactive involvement in project, programme and portfolio management (e.g. as member of a steering board) and commitment to the continuous development of the organisational competence in managing projects.

Leadership in projects, programmes and portfolios is shown by defining and communicating clear goals and clarifying the expectations for the management of project, programme and portfolio. An organisation's leadership needs to provide sufficient resources for project, programme and portfolio activities as well as a robust decision-making process. This should be based on robust and reliable information (e.g. project reports) linking strategic and operational levels and it should have defined regulations and guidelines for the escalation of issues and decisions.

Leadership also includes establishing effective communication with all stakeholders (e.g. customers, employees and shareholders), using all kinds of media, tools and formats (e.g. face-to-face meetings, telephone conversations, e-mails, internet seminars and social media).

Intended Users' Actions

Top managers provide leadership through their governance function. They communicate the organisation's mission, vision and strategy and the project, programme and portfolio mission, vision and strategy to all stakeholders. It is essential for the success of project, programme and portfolio management that the top managers demonstrate their commitment and are actively involved in projects, programmes and portfolios.

Senior executives also provide leadership through their governance function. They communicate the project, programme and portfolio mission, vision and strategy to all stakeholders in their area of responsibility. It is essential for the success of project, programme and portfolio management that all senior executives demonstrate their commitment and are actively involved in projects, programmes and portfolios and the continuous development of the organisation's competence in managing projects.

The executive directing project management activities communicates the project, programme and portfolio mission, vision and strategy to all stakeholders. It is essential for the success of project, programme and portfolio management that this executive helps to clarify the organisation's expectations for project, programme and portfolio management, is actively involved in projects, programmes and portfolios as well as in the development of the organisation's competence in managing projects. Project, programme and portfolio managers undertake projects, programmes and portfolios and lead the assigned staff in accordance with the project, programme and portfolio mission, vision and strategy and the targets set by top managers.

They are actively involved in projects, programmes and portfolios as well as in the development of the organisation's competence in managing projects and provide feedback to the leadership top managers and senior executives. Project, programme and portfolio staff members act in accordance with the leadership provided by all management levels. They should be involved in the development of the organisation's competence in managing projects and provide feedback with respect to the leadership shown in projects, programmes and portfolios.

Key Questions:

- Do all management levels show commitment and are they actively involved in projects, programmes and portfolios?
- Do top managers and senior executives define and communicate goals and clarify their expectations for project, programme and portfolio management?
- Does the organisation enable the development of leadership competences in projects, programmes and portfolios?
- Do all management levels establish comprehensive communication with, and between, stakeholders of projects, programmes and portfolios?
- Are all stakeholders (e.g. project, programme and portfolio staff) actively providing feedback with respect to the leadership shown in projects, programmes and portfolios?
- Does the organisation foster a robust decision-making process linking strategic and operational levels?

7.74. Performance [G4]

Organisations are facing many challenges in today's highly competitive global environment. Business-oriented organisations need to be competitive in their market segment in order to survive. Organisations in the public sector and not-for-profit organisations are required to perform in order to fully satisfy their stakeholders' needs. For projects, programmes and portfolios this means to achieve the required goals in an effective and efficient manner, mobilising people and resources to best effect to deliver the organisation's mission, vision and strategy.

Top managers and senior executives set performance targets for projects, programmes and portfolios as well as for project, programme and portfolio management. This includes time, cost and quality of the deliverables together with the efficient utilisation of resources. For project, programme and portfolio management, targets include progress towards reaching long-term strategic goals together with the efficient utilisation of the resources used for managing projects, programmes and portfolios.

Performance should be monitored and controlled by using a set of KPIs. The targets for performance should be derived from the project, programme and portfolio mission, vision and strategy. Top managers and senior executives should clearly communicate their targets and expectations for performance.

KPIs should be used for defining and planning activities for project, programme and portfolio management and continuous development of the organisation's competence in managing projects. Performance should be monitored and controlled on a regular basis, using the KPIs. The executive directing the project management activities should report to the top management and steering committees for proactive decision-making and for any required corrective action, including those for the long-term development of the organisation's competence.

Intended Users' Actions

Top managers, together with senior executives, set performance targets and KPIs aligned with the project, programme and portfolio mission, vision and strategy. They communicate those targets, relevant KPIs and their expectations to all stakeholders. They are actively involved in monitoring and controlling performance and deciding on corrective actions.

The executive directing the project management activities plans, implements, monitors and reports on the activities for delivering the performance targets for project, programme and portfolio management and coordinates them with the project, programme and portfolio managers. The performance achieved as well as the management is monitored, controlled and reported on a regular basis to top management and senior executives. Decisions concerning any corrective actions are implemented by the executive directing project management activities.

Project, programme and portfolio managers perform the projects, programmes and portfolios and lead the assigned staff in accordance with the performance targets and KPIs. They proactively monitor and control the performance, report to the respective management levels, and implement corrective actions as decided or as is appropriate. Project, programme and portfolio staff members act according to the leadership from all management levels. They should be involved in monitoring, controlling and reporting performance and providing feedback to project, programme and portfolio managers.

Key Questions

- Does the organisation have performance targets for projects, programmes and portfolios?
- Does the organisation have performance targets for project, programme and portfolio management?
- Do top managers and senior executives define performance targets (e.g. using KPIs) and clarify their expectations for performance?
- Does the organisation monitor and control performance on a regular basis?
- Do project, programme and portfolio managers and staff provide feedback on performance?
- Does the organisation implement corrective action where performance targets are not met?

7.7.5. Project management [M1]

Project management is used in many organisations to achieve results. It varies from organisation to organisation, but typically an organisation performs projects in parallel to other activities. Therefore, it is crucial for the organisation to clearly define what a project is, how it is different from other activities and which processes, methods and tools are used to achieve the desired results in the best possible ways. Having defined what a project is and, potentially, different categories of projects (e.g. small, medium, large, complex, non-complex), the organisation needs to define the processes, methods and tools used for managing projects of different types.

Top managers, together with senior executives, define their expectations for project management standards. Typically, these project management standards are developed by the executive directing the project management activities with the help of internal and external experts. These are often based on internationally accepted standards such as the ISO 21500.

The project management standards should cover the whole lifecycle of projects, from initiation to closure. Each project is unique. Therefore project management standards should be tailored to the needs of a specific project and should include regulations and guidelines for how the standards can be used and tailored appropriately.

These standards should be an integral part of the organisation's management system and be made accessible to all involved in project management (e.g. using electronic platforms). All users should be familiar with and appropriately trained in the use of these standards. This includes external partners such as suppliers, as appropriate. To ensure that the standards remain relevant and appropriate over time, the organisation should ensure that all internal and external users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define their expectations for project management standards to meet the project, programme and portfolio mission, vision and strategy. They set the project

management standards, communicate them to all stakeholders, actively monitor and control the application of the standards and decide upon corrective actions.

The executive directing the project management activities, together with internal and any external experts, develops and implements the project management standards. These include a definition and a categorisation system for projects, relevant processes, methods and tools as well as procedures for tailoring the standards. The application of the standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to top management and senior executives.

Project, programme and portfolio managers support the development of the project management standards and apply them to their projects. They proactively monitor and control the application of the standards and support their continuous development. Project, programme and portfolio staff act in accordance with the standards and leadership provided by all management levels. They provide feedback on how the standards can be improved and support development activities.

Key Questions

- Does the organisation have a clear definition of what a project is and how projects differ from other activities?
- Does the organisation define different categories of projects (e.g. depending on the complexity of a project)?
- Does the organisation have standards for managing projects (e.g. processes, methods and tools)?
- Does the organisation have procedures for tailoring the project management standards to the specific needs of a project?
- Are the project management standards accessible to, understood and applied by all internal and relevant external project, programme and portfolio staff and managers?
- Do all users of the project management standards provide feedback and suggestions for continuous improvement?

7.7.6. Programme management [M2]

Programme management is used in many organisations as a means for realising benefits. Benefits realisation is the main differentiator between programmes and projects. Therefore, it is crucial for the organisation to clearly define what a programme is, how it is different from projects and other activities and which processes, methods and tools, are used for managing programmes and realising benefits in the best possible way. The top managers, together with senior executives, set the standards for managing programmes and realising benefits. Typically, these standards are developed by the executive directing the programme management activities with the help of internal and external experts, often based on internationally accepted standards.

The programme management standards should cover the whole lifecycle of programmes, from initiation to closure, with special emphasis on benefits realisation. Each programme is unique;

therefore programme management standards should be able to be tailored to the needs of a specific programme and should include regulations and guidelines for how the standards can be used and tailored appropriately.

These standards should be an integral part of the organisation's management system and be made accessible to all people involved in programme management (e.g. using electronic platforms). All users should be familiar with and appropriately trained in the use of these standards. This includes external partners, depending on their role in a programme. To ensure that the standards remain relevant and appropriate over time, the organisation should ensure that all internal and external users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define their expectations for programme management standards to meet the project, programme and portfolio mission, vision and strategy. They set the programme management standards, communicate them to all stakeholders, actively monitor and control the application of the standards and decide upon corrective actions.

The executive directing the programme management activities with the support of internal and, if required, external experts, develops and implements the programme management standards, including a definition of a programmes, relevant processes, methods and tools as well as procedures for tailoring the standards.

The application of the standards, as well as the need for further development, needs to be monitored, controlled and reported on a regular basis to top management and senior executives. Project, programme and portfolio managers support the development of the programme management standards and apply them to their programmes. They proactively monitor and control the application of the standards and support their continuous development.

Project, programme and portfolio staff act in accordance with the standards and leadership provided by all management levels. They provide feedback on how the standards can be improved and support development activities.

Key Questions

- Does the organisation have a clear definition of what a programme is and how programmes differ from other activities?
- Does the organisation provide a standard for managing programmes (e.g. processes, methods and tools)?
- Does the organisation provide a standard for managing realisation of benefits
- Does the organisation have procedures for tailoring the programme management standards to the specific needs of a programme?
- Are the programme management standards accessible to, understood and applied by all internal and relevant external project, programme and portfolio staff and managers?

- Do all users of the programme management standards provide feedback and suggestions for continuous improvement?

7.7.7. Portfolio management [M3]

Portfolio management is typically a permanent function in organisations managing multiple projects and programmes in a coordinated way. There might be more than one portfolio, depending on the complexity of the organisation or the variety of project types being performed. An organisation should clearly define the role of a portfolio and its contribution to the mission, vision and strategy of the organisation and the projects, programmes and portfolios.

The organisation needs to define the processes, methods and tools used for managing portfolios, aligning them with the organisation's mission, vision and strategy and available resources. The top managers, together with senior executives, set the standard for managing portfolios. Typically, this standard deals with selecting, initiating and prioritising projects and programmes in a defined area of responsibility, and how to monitor, control and report progress. It should also deal with resource prioritisation and allocation, which are crucial issues in portfolio management.

This standard should be an integral part of the organisation's management system and be made accessible to all people involved in portfolio management (e.g. using electronic platforms). All users should be familiar with and appropriately trained in the use of this standard. To ensure that the standard remains relevant and appropriate over time, the organisation should ensure that all users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define their expectations for portfolio management to meet both the organisation's and the project's, programme's and portfolio's missions, visions and strategies. They set the portfolio management standard, communicate it to all stakeholders, actively monitor and control the application of the standard and decide upon corrective actions.

Through steering committees or other boards, top managers and senior executives are also actively involved in managing portfolios (e.g. decision-making). The executive directing the portfolio management activities, with support of internal and any external experts, develops and implements the standard for portfolio management. He or she defines the role of portfolios in the organisation and their contribution to achieving both the organisation's and the project, programme and portfolio missions, visions and strategies.

The application of the portfolio management standard as well as the need for further development needs to be monitored, controlled and reported on a regular basis to top management and the senior executives.

Project, programme and portfolio managers support the development of the portfolio management standard and apply them to their own portfolio. They proactively monitor and control the application of the standard and support its continuous development. Project, programme and portfolio staff act in accordance with the standard and leadership provided by all management levels. They provide feedback on how the standard can be improved and support development activities.

Key Questions

- Does the organisation define the role of a portfolio and its contribution to achieve both the organisation's and the project, programme and portfolio missions, visions and strategies?
- Does the organisation provide a standard for portfolio management (e.g. processes, methods and tools)?
- Does the organisation ensure that selection and prioritisation of projects and programmes in a portfolio is aligned with the organisation's overall mission, vision and strategy?
- Does the organisation ensure the balancing and prioritisation of all projects and programmes in a portfolio, taking account of the available resources?
- Does the organisation have a process for consolidating progress reports of projects and programmes at a portfolio level and reviewing them on a regular basis?
- Is the portfolio management standard accessible to, understood and applied by all project, programme and portfolio staff and managers?
- Do all users of the portfolio management standard provide feedback and suggestions for continuous improvement?

7.7.8. Process alignment [A1]

Today's organisations are highly process-driven. All activities transforming input into output using resources can be defined as processes. To be competitive, organisations need to use resources efficiently and effectively and to do so need to ensure optimal alignment of all project, programme and portfolio processes. Processes used, such as delivery processes, support processes and project, programme and portfolio management processes, need to be aligned with each other both internally and externally with, for example, customers, regulators and partners.

The top managers, together with the senior executives, set standards for aligning processes. Typically, the executive directing the project management activities with the help of internal, and if required, external experts, develops these standards. They can include a process master plan, an organisation or sector-specific process model and tailoring concepts.

These standards should be an integral part of the organisation's management system and be made accessible to all people involved in projects, programmes and portfolios (e.g. using electronic platforms). All internal and external users should be familiar with and appropriately trained in the use of these standards. To ensure that the standards remain relevant and appropriate over time, the organisation should ensure that all internal and external users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define their expectations for project, programme and portfolio process alignment to meet the project, programme and portfolio mission, vision and strategy. They set the standards, communicate them to all stakeholders, actively monitor and control the application of the standards and decide upon corrective actions.

The executive directing the project management activities with support of internal and external experts, develops and implements standards for aligning project, programme and portfolio internal and external processes. The application of these standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to top management and the senior executives. Project, programme and portfolio managers analyse the processes used within the relevant internal and external context of the organisation and define processes for their project, programme and portfolio in accordance with the standards. Where necessary, they adapt existing processes, implement and control process application.

They proactively monitor and control the application of the standards and support their continuous development. Project, programme and portfolio staff act in accordance with the standards and leadership provided by all management levels. They provide feedback on how the standards can be improved and support development activities.

Key Questions

- Does the organisation provide standards for aligning processes in projects, programmes and portfolios (e.g. process master plan, an organisation or sector-specific process model and tailoring concepts)?
- Does the organisation ensure that processes in projects, programmes and portfolios are aligned with processes of internal parties (e.g. delivery, support, leadership functions)?
- Does the organisation ensure that processes in projects, programmes and portfolios are aligned with processes of external parties (e.g. customers, regulators and partners)?
- Is the process alignment standard accessible to, understood and applied by all project, programme and portfolio P staff and managers?
- Do all users of the process alignment standard provide feedback and suggestions for continuous improvement?

7.7.9. Structural Alignment [A2]

Organisations usually perform projects and programmes through a temporary organisation and need to align this temporary organisation with other organisational units. All organisational units and functions involved in the management of projects, programmes and portfolios (e.g. project, programme and portfolio roles, teams, PMO, steering boards) should be aligned with internal and external units. The top managers, together with senior executives, set standards for aligning structures. Typically, the executive directing the project management activities develops these standards with the help of internal and any external experts.

They can include an interface diagram, a description of roles and responsibilities (e.g. responsibility assignment matrix) and tailoring concepts. These standards should be an integral part of the organisation's management system and be made accessible to all people involved in projects, programmes and portfolios (e.g. using electronic platforms).

All internal and external users should be familiar with, and appropriately trained in, the use of these standards. To ensure that the standards remain relevant and appropriate over time, the organisation should ensure that all users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define their expectations for project, programme and portfolio structural alignment to meet the project, programme and portfolio mission, vision and strategy. They set the standards, communicate it to all stakeholders, actively monitor and control the application of the standards and decide upon corrective actions.

The executive directing the project management activities with support of internal and, if required, external experts, develops and implements standards for aligning all internal and external organisational units and functions used in projects, programmes and portfolios. The application of these standards, as well as the need for further development, needs to be monitored, controlled and reported on a regular basis to top management and the senior executives.

Project, programme and portfolio managers analyse the structures applied within the relevant internal and external context of the organisation, define structures in accordance with the standards, align and implement these structures and control their application. They proactively monitor and control the application of the standards and support their continuous development. Project, programme and portfolio staff act in accordance with the standards and leadership provided by all management levels. They provide feedback on how the standards can be improved and support development activities.

Key Questions

- Does the organisation provide standards for aligning structures in projects, programmes and portfolios (e.g. interface diagram, description of roles and responsibilities and tailoring concepts)?
- Does the organisation ensure that organisational functions and roles in projects, programmes and portfolios are aligned with functions and roles of internal parties (e.g. delivery, support, leadership functions)?
- Does the organisation ensure that organisational functions and roles in projects, programmes and portfolios are aligned with functions and roles of external parties (e.g. customers, regulators and partners)?
- Is the structural alignment standard accessible to, understood and applied by all project, programme and portfolio staff and managers?
- Do all users of the structural alignment standard provide feedback and suggestions for continuous improvement?

10. Cultural Alignment [A3]

Organisations are social systems, where personal behaviour is affected by values, visions, norms, symbols, beliefs and ethics, which constitute a specific organisational culture. Projects, programmes and portfolios are also performed within a specific cultural context influencing the behaviour of people

acting in projects, programmes and portfolios. Normally each project, programme and portfolio will develop its own culture over time. Potentially this can lead to difficulties with communication and misunderstandings.

Therefore, the organisation needs to work to ensure the alignment of project, programme and portfolio cultures with the cultures of related internal and external parties. The top managers, together with senior executives, define and foster a specific project, programme and portfolio-oriented culture in the organisation. They set and communicate standards as well as regulations and guidelines for aligning cultures (e.g. governance principles, code of conduct/ ethics and training). They should actively monitor and control the application of these standards, regulations and guidelines on cultural alignment and decide upon corrective actions.

Typically, the executive directing the project management activities with support of internal, and often external, experts develops and implements these standards. The standards should be an integral part of the organisation's management system and be made accessible to all people involved in projects, programmes and portfolios (e.g. using electronic platforms).

All internal and external users should be made familiar with and appropriately trained in the use of these standards. To ensure that the standards remain relevant and appropriate over time, the organisation should ensure that all internal and external users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define their expectations for project, programme and portfolio cultural alignment to meet the project, programme and portfolio mission, vision and strategy. They actively foster a specific culture and set standards, regulations and guidelines for aligning relevant cultures, communicate them to all stakeholders, actively monitor and control the application of these standards and decide upon corrective actions.

The executive directing the project management activities helps to foster a specific project, programme and portfolio-oriented culture. Together with internal, and often external, experts they develop and implement standards for aligning cultures in projects, programmes and portfolios with the cultures of internal and external parties.

The application of these standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to top management and the senior executives. Project, programme and portfolio managers analyse the existing cultures within their projects, programmes and portfolios. They define a specific culture based on the requirements and stakeholder expectations. They then align their culture with cultures of all internal and external parties in accordance with the standards, regulations and guidelines set by top management and senior executives. They proactively foster, monitor and control the specific project, programme and portfolio-oriented culture as well as the application of the standards and support their continuous development.

Project, programme and portfolio staff act in accordance with the standards and leadership provided by all management levels. They provide feedback on how the standards, regulations and guidelines can be improved and support development activities

Key Questions

- Does the organisation foster a specific project, programme and portfolio -oriented culture?
- Does the organisation provide standards as well as regulations and guidelines for aligning cultures in projects, programmes and portfolios (e.g. governance principles, code of conduct, code of ethics)?
- Does the organisation ensure that cultures in projects, programmes and portfolios are aligned with cultures of all internal and external parties?
- Are the desired project, programme and portfolio culture, alignment standards, regulations and guidelines understood and applied by all project, programme and portfolio staff and managers?
- Do all users of the cultural alignment standards, regulations and guidelines provide feedback and suggestions for continuous improvement?

7.7.11. People's competence requirements [P1]

Organisations undertake projects, programmes and portfolios with people. They are increasingly dealing with more complexity in their projects, programmes and portfolios, highlighting the need to focus on their people's competence requirements. Organisations need to define, plan and control people's competence requirements to ensure there are sufficient, both in quantity and in quality, available at the required time.

The top managers, together with senior executives, define and communicate their overall goals and expectations for project, programme and portfolio people's competence requirements based on the project, programme and portfolio mission, vision and strategy. They set standards for defining, planning and controlling the requirements, including qualitative requirements (e.g. competence model and job descriptions for all project, programme and portfolio roles), as well as quantitative requirements (e.g. HR and succession planning).

The HR department and the executive directing the project management activities support top managers and senior executives in setting standards. Definition of the qualitative requirements depends on the type and complexity of projects, programmes and portfolios undertaken and the competence requirements of all people involved (e.g. project, programme and portfolio managers, staff and stakeholders).

It is typically aligned with the organisation's overall competence model. Quantitative requirements are defined and planned on the basis of predicted fluctuation rates and succession plans of existing and future projects, programmes and portfolios. To ensure that people's competence requirements remain relevant and appropriate over time, the organisation should ensure that all users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for defining, planning and controlling the qualitative and quantitative people's competence requirements based on the project, programme and portfolio mission, vision and strategy

and other relevant standards. They communicate these standards to all stakeholders, actively monitor and control the application of these standards and decide upon corrective actions.

They are also involved with defining, planning and controlling the people's competence requirements. The executive directing the project management activities, usually with help of the HR department, defines, plans and controls the qualitative and quantitative people's competence requirements based on the project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines.

The application of these standards, as well as the need for further development, needs to be monitored, controlled and reported on a regular basis to the top managers and the senior executives. Project, programme and portfolio managers and staff support the process of defining, planning and controlling the qualitative and quantitative people's competence requirements. They provide feedback on how the standards, regulations and guidelines can be improved and support development activities.

Key Questions

- Does the organisation manage the qualitative people's competence requirements for all the people involved in projects, programmes and portfolios (e.g. competence model, job descriptions for all project, programme and portfolio roles)?
- Does the organisation manage the quantitative people's competence requirements for all the people involved in projects, programmes and portfolios (e.g. HR and succession planning)?
- Does the organisation provide standards, regulations or guidelines for defining, planning and controlling people's competence requirements?
- Are the standards, regulations and guidelines understood and applied by all project, programme and portfolio staff and managers?
- Do all project, programme and portfolio managers and staff provide feedback and suggestions for continuous improvement of people's competence requirements and the respective standards

7.7.12. People's Competences State [P2]

Organisations need to analyse the current state of their people's competences against the defined people's competences requirement identified in order to achieve the project, programme and portfolio mission, vision and strategy. A comparison between the defined requirement and the current state will enable an organisation to identify gaps, strengths and weaknesses in people's competences. Appropriate actions can then be planned to exploit any identified strengths and how to address gaps and weakness, such as though people's competences acquisition or development.

The top managers, together with senior executives, define and communicate their goals and expectations for establishing the current state of project, programme and portfolio people's

competences based on the project, programme and portfolio mission, vision and strategy. They set standards for analysing, identifying and evaluating the current state versus the qualitative and quantitative requirements (e.g. competence assessments, benchmarking, gap analysis).

The HR department and the executive directing project management activities support top managers and senior executives in setting standards. Once an organisation has established the current state of the people's competences, this can then be used as a baseline against which to monitor improvements and the impact of future changes. Because the state of people's competences may change over time, the organisation needs to control and improve the people's competences and the respective standards on a regular basis, asking all managers and people involved for feedback.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for analysing, identifying and evaluating the state of people's competences based on the project, programme and portfolio mission, vision and strategy and other relevant standards. They communicate these standards to all stakeholders, actively monitor and control the application of these standards, and decide upon corrective actions.

They are also involved with analysing, identifying and evaluating the state of people's competences. The executive directing the programme management activities, usually with help of the HR department, analyses, identifies and evaluates the state of current people's competences based on the project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines. The application of these standards, as well as the need for further development, need to be monitored, controlled and reported on a regular basis to the top managers and the senior executives.

Project, programme and portfolio managers and staff support the process of analysing, identifying and evaluating the state of people's competences. They provide feedback on the state of people's competences as well as how the standards can be improved, and support development activities.

Key Questions:

- Does the organisation analyse the current state of the project, programme and portfolio people's competences (e.g. competence assessments, benchmarking and gap analysis)?
- Does the organisation define corrective action, if the requirements are not met (e.g. people's competences acquisition or development)?
- Does the organisation provide standards, regulations or guidelines for analysing, identifying and evaluating the state of people's competences?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning the state of people's competences and the respective standards?

7.7.13. People's Competences Acquisition [P3]

Having the right people with the right competences available for projects, programmes and portfolios is a critical success factor for organisations to achieve the project, programme and portfolio mission, vision

and strategy. Therefore, the organisation should take appropriate action to acquire/ recruit people with the required project, programme and portfolio competences.

The top managers, together with senior executives, define and communicate their goals and expectations for the acquisition of people's competences based on the project, programme and portfolio mission, vision and strategy. They set standards for identifying, evaluating, selecting and assigning people (e.g. recruiting, assessment centre, job assignments). The HR department and the executive directing project management activities support top managers and senior executives in setting standards.

Before starting acquisition, the organisation needs to have determined the people's competence requirements, identified the current state and compared the requirement to the current state to identify the gaps/weaknesses to be filled. In addition, the organisation needs to analyse the market for suitable sources. Potential candidates can be acquired from internal or external sources (e.g. job market, contractors or special service providers).

Potential candidates should be evaluated, selected and assigned project, programme and portfolio roles and tasks based on the predefined competence requirements. Newly acquired people should undergo a systematic integration process (e.g. induction, training, coaching or mentoring). To ensure that the people's competences acquisition processes and standards remain relevant and appropriate over time, the organisation should ensure that all users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for identifying, evaluating, selecting and assigning people based on the project, programme and portfolio mission, vision and strategy and other relevant standards. They communicate these standards to all stakeholders, monitor and control the application of these standards and decide upon corrective actions.

They are also involved with identifying, evaluating, selecting and integrating people. The executive directing the project management activities with help of the HR department identifies, evaluates, selects and assigns the people based on the project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines.

The application of these standards and the need for further development need to be monitored, controlled and reported on a regular basis to the top managers and the senior executives. Project, programme and portfolio managers and staff support the people's competences acquisition process. They provide feedback on the people's competences acquisition process as well as how the standards can be improved and support development activities.

Key Questions

- Does the organisation provide standards for identifying, evaluating, selecting and assigning people (e.g. recruiting, assessment centre and job assignments)?
- Does the organisation use available internal and external sources for the people's competences acquisition (e.g. job market, contractors and service providers)?

- Does the organisation evaluate the suitability of people against a defined requirement before recruiting and assigning those tasks in project, programme and portfolio?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning the people's competences acquisition and the respective standards?

7.7.14. People's Competences Development [P4]

Having the right people with the right competences available for projects, programmes and portfolios is a critical success factor for organisations to achieve the project, programme and portfolio mission, vision and strategy. People's competences development enables existing staff to meet the defined competence requirements.

Personal development opportunities to improve competences and skills are important to meet both organisational and personal goals for career progression, job satisfaction and motivation. Therefore, organisations should invest in the development of people's competences to meet the requirements of projects, programmes and portfolios. The top managers, together with senior executives, define and communicate their goals and expectations for people's competences development based on the project, programme and portfolio mission, vision and strategy.

They set standards for selecting, performing and evaluating the people's competences development (e.g. coaching, training and mentoring). The HR department and the executive directing project management activities support top managers and senior executives in this role. Before starting development, the organisation needs to have determined the people's competence requirements, identified the current state and compared the requirement with the current state to identify the gaps/weaknesses to be filled.

The organisation needs to select the appropriate development methods and providers (e.g. on-the-job training, external training and certification). There should be an agreement between the people and their managers about the objectives and outcomes for the development. At the end of the development activities, the outcomes should be evaluated and documented. To ensure that the people's competences development processes and standards remain relevant and appropriate over time, the organisation should ensure that all users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for selecting, performing and evaluating the people's competences development based on the project, programme and portfolio mission, vision and strategy and other relevant standards. They communicate these standards to all stakeholders, monitor and control the application of these standards and decide upon corrective actions. They are also involved with selecting, performing and evaluating the people's competences development.

The executive directing the project management activities, with the help of the HR department, selects, conducts and evaluates the people's competences development and the providers based on project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines. The

application of these standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to the top managers and the senior executives. Project, programme and portfolio managers and staff support the people's competences development process. They provide feedback on how the people's competences development process as well as how the standards can be improved, and support development activities.

Key Questions

- Does the organisation provide standards for selecting, performing and evaluating the people's competences development (e.g. coaching, training and mentoring)?
- Does the organisation use the available internal and external providers for the people's (e.g. on-the-job training, external training and certification)?
- Does the organisation evaluate the outcomes of people's competences development?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning the people's competences development and the respective standards?

7.7.15. Resource Requirements [R1]

Organisations perform projects, programmes and portfolios using various resources, (e.g. financial resources, know-how, material, energy). Organisations do not have unlimited resources and need to deal with scarce resources and shortages in order to meet the project, programme and portfolio mission, vision and strategy.

Organisations need to define, plan and control resource requirements to ensure there is sufficient in quantity and quality available at the right time. The top managers, together with senior executives, define and communicate their overall goals and expectations for resource requirements based on the project, programme and portfolio mission, vision and strategy.

They set standards for defining, planning and controlling the qualitative as well as quantitative requirements. Typically, the purchasing department and the executive directing the project management activities support top managers and senior executives in this. Based on information available from all projects, programmes and portfolios, the organisation should define short-, mid- and long-term resource requirements for all projects, programmes and portfolios and compare these needs with currently available resources. The gap between available and required resources shows where effort may be required for resource acquisition and development. To ensure that the resource requirements remain relevant and appropriate over time, the organisation should ensure that all users provide feedback to enable continuous improvement.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for defining, planning and controlling the qualitative and quantitative resource requirements based on the project, programme and portfolio mission, vision and strategy and other

relevant standards. They communicate these standards to all stakeholders, monitor and control the application of these standards and decide upon corrective actions.

They are also involved with defining, planning and controlling the resource requirements. The executive directing the project management activities, usually with help of the purchasing department, defines, plans and controls the resource requirements based on the project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines.

The application of these standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to the top managers and the senior executives. Project, programme and portfolio managers and staff support the process of defining, planning and controlling the qualitative and quantitative resource requirements. They provide feedback on how the resource requirements as well as the standards can be improved and support development activities.

Key Questions

- Does the organisation manage the qualitative requirements for all resources deployed in projects, programmes and portfolios?
- Does the organisation manage the quantitative requirements for all resources deployed in projects, programmes and portfolios?
- Does the organisation provide standards, regulations or guidelines for defining, planning and controlling the resource requirements?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning the resource requirements and the respective standards?

7.7.16. Resource State [R2]

Organisations need to analyse the current state of the resources deployed in projects, programmes and portfolios against the defined resource requirement in order to achieve the project, programme and portfolio mission, vision and strategy. A comparison between the defined requirement and the current state will enable an organisation to identify gaps, strengths and weaknesses and to plan appropriate action to exploit any identified strengths and how to address gaps and weakness, such as through resource acquisition or development.

The top managers, together with senior executives, define and communicate their goals and expectations for establishing the current resource state based on the project, programme and portfolio mission, vision and strategy. They set standards for analysing, identifying and evaluating the current state versus the requirements (e.g. gap analysis and supply chain analysis).

The purchasing department and the executive directing project management activities support top managers and senior executives in this. Once an organisation has established the current state of the available resources, this can then be used as a baseline against which to monitor improvements and the impact of future changes. Because the resource state may change over time, the organisation needs

to control and improve the resource state and the respective standards on a regular basis, asking all managers and people involved for feedback.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for analysing, identifying and evaluating the resource state based on project, programme and portfolio mission, vision and strategy and other relevant standards. They communicate these standards to all stakeholders, monitor and control the application of these standards and decide upon corrective actions.

They are also involved with analysing, identifying and evaluating the resource state. The executive directing the project management activities, usually with help of the purchasing department analyses, identifies and evaluates the current resource state based on the project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines.

The application of these standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to the top managers and the senior executives. Project, programme and portfolio managers and staff support the process of analysing, identifying and evaluating the resource state. They provide feedback on the resource state as well as the standards that can be improved and support development activities.

Key Questions

- Does the organisation analyse the current state of the resources deployed in projects, programmes and portfolios (e.g. gap analysis and supply chain analysis)?
- Does the organisation define corrective actions if the requirements are not met (e.g. resource acquisition or development)?
- Does the organisation provide standards, regulations or guidelines for analysing, identifying and evaluating the resource state?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning the resource state and the respective standards?

7.7.17. Resource Acquisition [R3]

Having sufficient resources (e.g. financial resources, know-how, material, energy) available for projects, programmes and portfolios is a critical success factor for organisations to achieve the project, programme and portfolio mission, vision and strategy. Therefore, the organisation should take appropriate action to acquire resources to meet the requirements of projects, programmes and portfolios.

The top managers, together with senior executives, define and communicate their goals and expectations for the acquisition of resources based on the project, programme and portfolio mission,

vision and strategy. They set standards for identifying, evaluating, selecting and assigning resources and respective suppliers. Typically, the purchasing department and the executive directing project management activities support top managers and senior executives in this role. Before starting acquisition, the organisation needs to have determined the resource requirements, identified the current state and compared the requirement to the current state to identify the gap/weakness to be filled. In addition, the organisation needs to analyse the market for suitable sources, which can be national and/or international.

Suppliers and resources should be evaluated, selected and assigned based on the pre-defined requirements. Because conditions for resource acquisition may change over time, the organisation needs to control and improve the resource acquisition process and the respective standards on a regular basis, asking all managers and people involved for feedback.

Intended Users' Actions

Top managers and senior executives define and communicate their overall goals and expectations. They set standards for identifying, evaluating, selecting and assigning resources based on the project, programme and portfolio mission, vision and strategy and other relevant standards. They communicate these standards to all stakeholders, monitor and control the application of these standards and decide upon corrective actions.

They are also involved with identifying, evaluating, selecting and assigning resources. The executive directing the project management activities with help of the purchasing and appropriate other functional departments, identifies, evaluates, selects and assigns resources based on the project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines. The application of these standards, as well as the need for further development, needs to be monitored, controlled and reported on a regular basis to the top managers and the senior executives.

Project, programme and portfolio managers and staff support the resource acquisition process. They provide feedback on how the resource acquisition process, as well as the standards, can be improved and they support development activities.

Key Questions

- Does the organisation provide standards for identifying, evaluating, selecting and assigning resources?
- Does the organisation use all available national and/or international sources for the resource acquisition?
- Does the organisation evaluate the suitability of resources and their providers before acquiring and assigning the resources in projects, programmes and portfolios?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning resource acquisition and the respective standards?

18. Resource Development [R4]

Having sufficient resources (e.g. financial resources, know-how, material, energy) available for projects, programmes and portfolios is a critical success factor for organisations to achieve the project, programme and portfolio mission, vision and strategy. Certain resources, such as knowhow, special facilities and tools, may not be easy to acquire and may need to be developed in order to meet the defined resource requirements in a sustainable way. Therefore, organisations should take appropriate action to develop the required resources.

The top managers, together with senior executives, define and communicate their goals and expectations for resource development based on the project, programme and portfolio mission, vision and strategy. They set the standards for selecting, performing and evaluating the resource development. The executive directing project management activities, together with respective functional departments, supports top managers and senior executives in this role. Before starting development, the organisation needs to have determined the resource requirements, identified the current state and compared the requirement to the current state to identify the gaps/weaknesses to be filled.

The organisation needs to select the appropriate development methods and providers, depending on the resource and the development needs. At the end of the development activities, the outcomes should be evaluated and documented. Because conditions for resource development may change over time, the organisation needs to control and improve the resource development process and the respective standards on a regular basis, asking all managers and people involved for feedback.

Intended users' actions: Top managers and senior executives define and communicate their overall goals and expectations. They set standards for selecting, conducting and evaluating the resource development based on the project, programme and portfolio mission, vision and strategy and other relevant standards.

They communicate these standards to all stakeholders, monitor and control the application of these standards and decide upon corrective actions. They are also involved with selecting, conducting and evaluating the resource development. The executive directing the project management activities, together with respective functional departments, selects, conducts and evaluates the resource development and the providers based on project, programme and portfolio mission, vision and strategy, standards, regulations and guidelines.

The application of these standards as well as the need for further development needs to be monitored, controlled and reported on a regular basis to the top managers and the senior executives. Project, programme and portfolio managers and staff support the resource development process. They provide feedback on how the resource development process and the standards can be improved and support development activities.

Key Questions

- Does the organisation provide standards for selecting, conducting and evaluating resource development?
- Does the organisation use the available internal and external providers for resource development?

- Does the organisation evaluate the outcomes of resource development?
- Are the standards, regulations and guidelines understood and applied?
- Do all project, programme and portfolio managers and staff provide feedback concerning the resource development process and the respective standards?

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