Lifelong
Learning Programme

EP RA
European Professional Certification for Rope Access

PROJECT EPCRA

PROFESSIONAL EUROPEAN CERTIFICATION FOR ROPE ACCESS

Project N° 2013-4329/539262-LLP-1-2013-1-FR–Leonardo-LMP

REFERENTIAL OF PROFESSIONAL ACTIVITIES AND COMPETENCES

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SUMMARY

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1. INTRODUCTION

This document was drawn up in the project "Establishment of a European certification" funded by the European Union through its sectoral programme Leonardo Da Vinci.

The main purpose of this project is to create a “European Certification” adapted for rope access technicians in the European Qualifications Framework.

Indeed, in the four partner countries, Germany, Spain, France and Norway, there are certifications recognized at national level whose formalization is sometimes incomplete or imperfect.
Preliminary meetings to the project enabled the establishment of a working group where the main objective is to analyse national certifications in each of the 4 countries.

This approach has established correspondence between various certification levels for each of the partner countries identifying potential differences or specifics needs related to the culture, professional rope access backgrounds, or the types of worksites.

This work allowed partner countries to get to know each other better and to decide the draft common reference points defining the professional skills of a rope access technician irrespective of the European country in which he may work.

A consortium has been constituted with the four partner countries.
Each country is represented by three categories of partners:
• Representatives of businesses in the Rope Access sector: employer organizations made up of rope access companies across a wide variety of sectors: public works, Industry, Offshore, Energy, Events, Cleaning
• Professionals in engineering of competences or techniques on ropes
• Long life training organizations with expertise in training engineering

The aim of these partners is to create, at European level, a certification validated by these four countries to change and recognize the required skills for rope access.

This certification is composed of:
• A Referential for Professional Activities and Competences (RAPC), including descriptions of the functions, activities, tasks, conditions of realization, as well as training results in terms of knowledge, skills and competences.
• A Referential of Certification (RC), including certification units, modules grid of the training programme, ECVET credits, access conditions to AWE, Europass certificate supplement.
• Modular training programmes for rope access technicians.
• Trainers training programme.
• Jury members training programme.

2. PROJECT PRESENTATION

Rope Access Technician, a versatile profession

A rope access technician is a person who achieves a safe work position or in areas of difficult access using ropes.

The career of the Rope Access Trade has become more professional over time and today the rope access industry is a flourishing sector in which security is the key component. The field of intervention of the Rope Access Technician extends to all sectors of Public Works, Building, Industry, Offshore, Energy, Telecommunication, Events and Cleaning.

This diversity of activities necessitates the rope access technician as well as the company that employs them to adapt traditional jobs knowledge to specific methods of intervention with rope whose practice requires a constant updating of techniques and ongoing professional training.

The rope access industry has become a key player in project management; it creates jobs, therefore professional organizations and companies are strongly committed in ongoing professional training for so many years.

This diversity allows rope access technicians to expand their area of skills, or enhance traditional job knowledge that may be required on certain interventions such as: rope access welder, rope access mason, rope access driller, etc.

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Objectives and work

The end result is to create, using the experience of Europeans countries, A "European Certification" adapted to rope access technicians and in compliance with the European Qualifications Framework.

The tools created are:

A reference for professional activities and skills of rope access technicians

A certification standards in compliance with the EQF, which incorporates the accreditation of work experience

A modular training programme for rope access technicians

A trainers´ training programme allowing the transfer of new references and training programmes to trainers

A Training certification jury programme, certification assessor allowing company leaders, employees and trainers

to integrate certification criteria and modalities

These tools have been tested and piloted in each country during the project.

This new certification contributes to the promotion and harmonization of the rope access technicians skills and will be extended to countries wishing to join in this process.

Consortium: Partners

Constitution of the consortium:
GIPFIPAG in France, is responsible of the general coordination of the project

1. National professional organizations in rope access work of four countries:
   - SFETH for France
   - ANETVA for Spain
   - FISAT for Germany
   - SOFT Sertifisering for Norway.
2. Training organizations of three countries:
   - GRETA VIVA 5 for France,
   - TINDAÏ for Spain
   - SEILPARTNER GmbH for Germany
3. An external auditor: CDI in Bulgaria responsible for the evaluation and quality assurance.

3. COMPETENCY BASED APPROACH

The trainers have developed an approch to think of "training as a lever for economic performance", the so called competency based approach.

The competency based approch is a methodology that gives meaning and legitimacy to adult professional training practices. It consists in articulating current and emerging professional activities in a given profession to the training of the holders of this trade so that training experiences turn into operational competencies on the job.

This aspect results in the creation of new competences for trainers. The field of training engineering.

In the course of the project training engineering was defined as "totality of methods knwon from engineering used for training aspects".

Through this approach, the training engineering includes a set of methods, tools and criteria. The stages are:

- Analysis of a working organization´s needs in terms of competences, skills and knowledge.
- Translating this issue into training needs.
- Defining skills thus enabling the training to meet company´s needs.
- Effecting assessments of the action on the issue, with a return of investment for both employee and employer.
- Eventually, the achievement of corrections within a continuous improvement process.

To build this certification several engineering methods were used to create the Referential of professional activities and competences.

4. METHODOLOGY USED

It has been decided to establish an architecture using the the following points identified by the referential of professional activities and competences:

- modules linked to a single function
- modules linked to several functions

Each module contributes to achieve a complete or a part of a certification unit.

To respect the modular structure, the requirements show modules that might be concerned as well as certification units the modules refer to.

The following steps were taken to describe each training module:

- Integration of competences as described in the RAPC and rephrased as operational objectives
- Dedution of educational objectives from the defined operational objectives
- Description of the module content based on the educational objectives
- Development of performance criteria that allow definition of evaluation criteria and modalities for each module

Educational methods are mainly practical, but integrate the more theoretical modules in the context of rope access.

FUNCTIONS	ACTIVTIES	TASKS	TASK DECRIPTION - OPERATIONS	OBSERVABLE AND MEASURABEL CRITERIA	CONDITIONS (processes to comply with - method used - equipment)	KNOWLEGE	SKILLS	COMPETENCES
F1. Rope access working techniques	**F1.A1.** Equipping access ways and ergonomic work places at height	**F1.A1.T1.** Tying and evaluating knots	Evaluates the quality of knots (made by himself or his teammates).	Ties and evaluates:	European and national standards and codes of best practice are available.	Knows the purpose of the different knots.	Ties knots in a complet and correct way	Visualises a clear picture of every knot.
			Ties anchor knots.	Anchor knots: loop knot, figure eight loop, figure nine, bunny knot, double figure eight, bowline hitch, clove hitch, alpine butterfly		Is aware of reduction of breaking strenght when tying a knot into a rope.	Identifies and names all knots when seeing the respective picture	Adjusts all knots of the setup configuration systematicaly in order to distribute or minimize the forces and handle fall factor and directions.
			Ties knots to connect two ropes.	Bends: double fisherman's bend, figure eight bend, triple figure eight			Judges knots in concerns of neatness.	Ensures that all knots are correctly tied.
			Ties stopper knots.	Stopper knots: barrel knots, or figure eight				
			Ties special knots.	Other knots: Munter hitch, prussik, french prussik				
		F1.A1.T2. Implementing anchor devices	Attaches ropes to given anchor points.	Uses given anchor points. Detects possible weaknesses and informs his supervisor.	European and national standards and codes of best practice are available.	Knows requirements for structural and artificial anchor points.	Wraps rope and webbing around structures using knots and connectors.	Wraps rope and webbing around structures using knots and connectors.
			Attaches ropes using slings.	Chooses a safe way to attach a set of ropes.	Defined anchor points are rated sufficient.	Is aware of the influence of opening angles on resulting forces.	Chooses the correct knots and type of connectors for given anchor points.	Masters the principles of attaching ropes and slings to anchor points or around structures respecting the maximum forces and the desired position of the work station.
			Attaches ropes to existing structures.	Uses an adequate knot and/or the correct lenght of sling.		Knows the respective knots.		
			Identifies and evaluates given anchor points.	Handles friction and sources of degradation of ropes and equipment.		Knows norms for slings and connectors.		
						Knows characteristics and rules for further use when influenced by friction and wear (cuts, heat...)		
		F1.A1.T3. Installing ropes and/or fall prevention devices on defined anchor points	Sets up equipment using ropes and fall arrest systems.	Complies with the manufacturer's user instruction.	Necessary equipment is supplied and available.	Knows the characteristics and limits of the equipment in use.	Prepares the access ways to a defined work station.	Chooses and implements the appropriate equipment for the given work task.
			Installs provisional lifelines.	Complies with applicable rules and regulations (and best practice of the industry).	Manufacturer's user instructions and manuals are available.	Knows characteristics and rules for further use when influenced by friction and wear (cuts, heat...)		
				Avoids friction and sources of damage to ropes and equipment.	European and national standards and codes of best practice are available.	Knows the european regulations defining the principles of rope access, the legislation in force and specific rules of the trade in his country.		
		F1.A1.T4. Checking the conservation state of implemented equipment	Checks function and wear of the equipment before and during each use.	Identifies sufficient and insuffient equipment, explains the reason for his judgement and suggests further action.	National rules and regulations regarding inspection of PPE are available.	Knows the main signs of degradation of equipment.	Identifies damage and signs of wear on a piece of equipment.	Ensures compliance with the user instruction on site.
					Manufacturer's user instructions and manuals are available.	Knows the rule of thumb when to sort out PPE.	Ensures that only certified and inspected equipment are used.	
					Inspection certificates are available.	Knows intervals when to present PPE to an equipment specialist / authorized person for inspection.		
						Knows when to inspect PPE visually.		
		F1.A1.T5. Installing rope access systems and equipping work places under consideration of ergonomic aspects.	Installs various access ways for rope access and PPE against falls from a height reducing physical effort and awkward posture to a minimum.	Complies with applicable rules and regulations (and best practice of the industry).	Necessary equipment is supplied and available.	Knows different access and positioning methods.	Visualizes his work place in detail.	Arranges the different means for work necessary to master the work task in an ergonomic way.
			Implements necessary work equipment to fulfill the given work task in an ergonomic way.		Manufacturer's user instructions and manuals are available.			
	F1.A2. Access and positioning at height.	F1.A2.T6 Using PPE against falls from a height for access and positioning.	Uses PPE against falls from a height, moves and passes obstacles.	Handles the backup system in a correct way.	Necessary equipment is supplied and available.	Knows the characteristics and limits of the equipment in use.	Handles rope acces equipment in the correct and adequate manner and according to the manufacturer's user instructions.	Implements and uses all equipment in a way that it does not influence other pieces of equipment in a negative way.
			Changes from PPE against falls from a height to rope access and vice versa.	Chooses and implements the appropriate equipment for the given task.	Manufacturer's user instructions and manuals are available.	Knows the european regulations defining the principles of use of PPE against falls from a height, the legislation in force and specific rules of the trade in his country.	Applies equipment as per intended use.	Uses the back-up system in a way that the shock-load will not exceed 6kN under any circumstance.
				Complies with the manufacturer's user instruction.	European and national standards and codes of best practice are available.		Handles equipment with ease and in an experienced way.	Executes all progression techniques in a correct and save manner, in adequation with the task and the conditions on site while following relevant rules and regulations.
				Complies with applicable rules and regulations (and best practice of the industry).				Verifies the conformity of all equipment and ropes before commencement of the operations.
				Stays permanently connected to the safety system.				
				Stays permanently connected to a safety system when changing from use of PPE against falls from a height to rope access and vice versa.				
		F1.A2.T7. Using rope access techniques for access and positioning.	Progress vertically, passing obstacles.	Handles the backup system in a correct way.	Necessary equipment is supplied and available.	Knows the characteristics and limits of the equipment in use.	Handles rope acces equipment in the correct and adequate manner and according to the manufacturer's user instruction.	Implements and uses all equipment in a way that it does not influence other pieces of equipment in a negative way.
			Progress horizontally, passing obstacles.	Chooses and implements the appropriate equipment for the given task.	Manufacturer's user instructions and manuals are available.	Knows the european regulations defining the principles of rope access, the legislation in force and specific rules of the trade in his country.	Uses equipment for the intended purpose.	Uses the back-up system in a way that the shock-load will not exceed 6kN under any circumstance.
			Progress diagonally, passing obstacles.	Complies with the manufacturer's user instruction.	European and national standards and codes of best practice are available.		Handles equipment with ease and in an experienced way.	Executes all progression techniques in a correct and save manner, in adequation with the task and the conditions on site while following relevant rules and regulations.

				Complies with applicable rules and regulations (and best practice of the industry).				Moves in all directions maintaining personal safety and is able to pass various obstacles on the way.
				Maintains permanent redundancy / working line and safety system.				Chaneges over from one set of ropes to another respecting the code of best practice of the industry.
	F1.A3. Using appropriate gear and PPE to fulfill a given work task.	**F1.A3.T8.** Deploying appropriate PPE to fulfill a given work task.	Identifies appropriate PPE.	Chooses and implements the appropriate equipment for the given task.	European and national standards and codes of best practice are available.	Knows the characteristics and limits of the equipment in use.	Shows correct use of PPE against falls from a height.	Chooses and implements the appropriate equipment for the work task.
			Selects appropriate PPE for the given work task.	Complies with the manufacturer's user instruction.	Inspection certificates are available.	Understands and explains different applications of available equipment.	Prepares and chooses material in accordance to the work task.	Ensures that any piece of PPE and equipment is sufficient and suitable for the respective work task.
			Uses available PPE according to manufacturer's user instruction.	Complies with applicable rules and regulations (and best practice of the industry).	Manufacturer's user instructions and manuals are available.	Understands and explains the difference between rope access and use of PPE against falls from a height.	Detectes wear, deterioration and isolates the equipment if necessary.	Verifies that all equipment is used as per manufacturer's user instruction.
			Adjusts use of available PPE to the work and access situations.	Knows the rules and regulation regarding PPE monitoring.		Knows and understands code of best practice.		
			Ensures that equipment is suitable for acces and positioning.	Knows the characteristics and limits of the used PPE.				
				Detectes wear and deterioration and isolates equipment if necessary.				
		F1.A3.T9. Deploying appropriate gear, tools and material to move moderate loads in the context of a given work task.	Estimates forces and direction of the resultant force being effective when lifting moderate loads.	Recognizes and explains different m/a pulley systems. Adapts the system according to the estimated forces and the limits of the equipment, structures and loads to move.	Manufacturer's user instructions and manuals are available.	Knows about the effect of pulleys in a m/a pulley system.	Ensures that all equipment is used in accordance with the manufacturer's user instruction, code of best practice and rules and regulations.	Installs a hoist system according to the calculated maximum forces and the limits of the equipment and loads to move.
			Considers the strain on anchor points, ropes and structures.	Breaks down and explains the (theoretical) forces at every point within the system.	European and national standards and codes of best practice are available.	Describes the limitations of used equipement.	Installs a system to handle (lift, lower, maneure and shift) moderate loads.	Uses and if necessary adapts a hoist system according to the calculated maximum forces and the limits of the equipment and loads to move.
			Assembles appropriate equipment components to lift and move a moderate load.		Necessary equipment is supplied and available.	Is aware of the resultant force.		
			Installs a hoist system, including various attachment points, tools and devices needed for lifting and moving a moderate load.	Lifts and moves a defined load using given anchor points and equipment adapted to the (theoretical) force.		Knows that pulley systems can easily exceed equipment limitations.		
			Checks permanently that the system is in line with the estimated forces.			Knows the correct use of given equipment.		
		F1.A3.T10. Arranging work stations in an ergonomic way	Positions himself on rope considering necessary movements to perform the task.	Complies with applicable rules and regulations (and best practice of the industry).	Necessary equipment is supplied and available.	Knows different access and positioning methods.	Determines the position of the work station and the operating range for a given work task.	Adapts the system of work if necessary.
			Handles light loads at the work station considering ergonomic aspects.		Manufacturer's user instructions and manuals are available.	Knows the limits of light loads to handle without supporting system.		

F2. Organizing and managing rope access operations	**F2.A1.** Assessing risks related to working at heights.	**F2.A1.T11** Considering and implementing preventive measures against HSE risks.	Takes into account oral instructions for the site and the workplace.	Knows where to find information or responsible contact person.	Oral instructions are given in a safe environment.	Presents key points of the work at height regulations. PPE, Rope access, etc.	Researches information in provided documents (data sheets, procedures, prevention plan, etc.)	Controls and manages negative interaction of two or more work stations.
			Takes into account the specific prevention documents regarding the site and the environment.	Uses the manufacturer's user instructions and safety data sheets for equipment, devices and material.	Manufacturer's user instructions and manuals are available.	Describes own liability, as well as the company's liability.	Identifies main stakeholders on site and their roles in the organisation chart.	Uses the relevant user instructions and safety data sheets of equipment, devices and material to prevent dangers.
			Identifies imported and exported risks linked to the specific access method.	Takes into account rope access specific risks.	Company procedures and specific HSE documents for the work site are available.			
			Identifies imported and exported risks linked to the specific work tasks.	Considers the direct or indirect effect of his activities on the environment.				
		F2.A1.T12. Implementing predetermined measures, recognizing discrepancies between planning and the actual situation at work and reporting to the supervisor.	Ensures compliance with specific rules of his company.	Ensures the maintenance of his profesional knowledge.	Instructions and written procedures are available.	Presents key points of the work at height regulations. PPE, Rope access, etc.	Betters himself and refreshes his knowledge about HSE and code of best practice periodically.	Checks the interrelation of predetermined measures with the actual situation on site and informs his suervisor in case of discrepancies.
			Respects specific characteristics of the site and/or the contracting company.	Identifies discrepancies between planning and the actual situation on site.	Company procedures and specific HSE documents for the work site are available.	Describes own liability, as well as the company's liability.		
			Respects measures described in the prevention plan and best practice defined by the industry.	Informs his superior or supervisors about discrepancies detected on site.	Company procedures and specific HSE documents of the hosting company are available.	Describes the risks that may result from his actions (work task and access method).		
					Notices and internal procedures are available.	Knows the code of best practice.		
					Website and information published by the industry are available.			
		F2.A1.T13. Continuous monitoring of the relevance of preventive measures.	Ensures that pre-defined protective measures are effective during execution of the work task and correspond to the actual situation on site.	Explains the main causes of degradation of equipment when working at height (corrosion, friction, etc.).		Knows the main causes of degradation of equipment when working at height (corrosion, friction, etc.).	Gathers information about the specifics on site or the hosting company.	Ensures a permanent monitoring of the actual situation on identifies possible discrepancies between expectations and reality.
			Implements protective measures and contributes to necessary improvements.	Ensures permanent monitoring of possible discrepancies between expected and actual situations.	Company procedures and specific HSE documents for the work site are available.	Presents key points of the work at height regulations. PPE, Rope access, etc.		Ensures during the work progress an implementation of the prescribed protection measures as well as their effectiveness and stimulates immediate or subsequent corrections.
					Company procedures and specific HSE documents of the hosting company are available.	Knows the code of best practice.		
					Notices and internal procedures are available.	Describes own liability, as well as the company's liability.		
	F2.A2. Interacting with all individuals on site.	**F2.A2.T14.** Communicating within the team.	Communicates in a professional language within his team.	Describes and/or explains technical terms of the industry.	Weekly and daily meetings are scheduled.	Knows the basics of interpersonal communication.	Uses a professional language. □	Informs his superiors wilful and in time.
			Transmits the necessary information for safe execution of various work tasks.	Informs superiors / supervisors wilful and in time. □	Means of communication are available.	Knows communication techniques using a portable radios.	Applies and respects the basic rules of communication.	Verifies that a work task is executed as per given instructions.
			Alerts management if any degraded situation is observed.	Applies the basic rules of communication.		Knows common signals for crane and helicopter operations.		
			Detects and expresses incomprehension when receiving written or oral information.	Researches necessary information to ensure the smooth operational procedures.				
		F2.A2.T15. Communicating with third parties on site.	Detects possible constraints when cooperating with others and reacts if necessary.	Uses a professional language.	Means of communication are available.	Knows the basics of interpersonal communication.	Uses a professional language.	Transmits information linked to the own work task to third parties on site, taking in consideration the various factors for misunderstanding.
			Transmits information linked to his task to third parties.				Applies and respects the basic rules of communication.	
	F2.A3. Managing equipment, gear and tools.	**F2.A3 T16.** Selecting and controlling PPE and other gear.	Verifies compliance of used PPE.	Knows the rules and regulations regarding inspection of PPE.	Manufacturer's user instructions and manuals are available.	Knows the regulation regarding PPE monitoring and inspection.	Distinguishes an exceptional incident with the equipment , and isolates it for further inspection.	Confirms that designated equipment and PPE is suitable and adapted to the work task.
			Verifies good condition of used PPE	Detects wear and deterioration and isolates equipment if necessary.	European and national standards and codes of best practice are available.	Knows characteristics and limits of PPE in use.	Ensures that all equipment is used in accordance with the manufacturer's user instruction, code of best practice and rules and regulations.	Ensures that inspection protocols are completely filled and at hand and guarantees inspection as per rules and regulations.
			Ensures that all PPE is used as recommended by the manufacter and according to best practice defined by the industry.	Knows characteristics and limits of the used PPE.	Inspection certificates are available.	Knows regulations regarding use of PPE.		Ensures that only certified and inspected equipment is used.
			Identifies any exceptional incident with the used equipment and isolates it for further inspection.	Ensures that all equipment is used according to the best practice defined by the industry.				
		F2.A3.T17. Selecting and controlling appropriate tools and equipment for the given work task and managing material handling.	Secures tools, equipment and material against falling.	Controls and manages interaction of different work stations.	Necessary equipment is supplied and available.	Identifies appropriate tools and equipment necessary to fulfill a given work task.	Uses means and methods adapted to the transport routes	Uses equipment and tools as recommended by the manufacturer's user instruction and in accordance with the best practice of the industry.
			Dispatches tools, equipment and material.	Chooses appropriate procedures for material handling.	Manufacturer's user instructions and manuals are available.			Secures tools, equipment and material against falling and implements the general rules of safe use.
			Enforces compliance with the usual precautions in the use of equipment and tools.	Secures tools and equipment by appropriate means.	European and national standards and codes of best practice are available.			Anticipates the influence of tools and material on other equipment, especially on PPE.
					Inspection certificates are available.			

F3. Emergency and resuce operations	**F3.A1.** Enabling an immediate evacuation of the work place.	**F3.A1.T18.** Equipping a work station to enable an immediate evacuation.	Implements equipment according to the prevention plan's recommendations and respects specific procedures.	Gathers all necessary information regarding the evacuation process fixed in the prevention plan.	Prevention plan that includes all necessary information regarding evacuation procedures is available on site.	Knows the characteristics of an emergency plan and evacuation related protocols.	Gathers necessary information in the emergency plan.	Within his powers, equips the work station in a way that an immediate evacuation is possible.
			Installs and prepares necessary devices for an evacuation of the work station.	Equips his work station to enable an immediate evacuation as per prevention plan.	Information describing the detailed role and task of every team member is available.	Is aware of emergency protocols at the workstation.		Helps to improve the emergency plan by making suggestions regarding own work place.
		F3.A1.T19. Executing an evacuation of the work site.	Supports evacuation of persons with no or limited experience.	Choses a suitable escape route focusing on safety and speed.	Prevention plan that includes all necessary information regarding evacuation procedures is available on site.	Knows the common procedures and devices to be used for an emergency evacuation.	Implements given evacuation procedures.	Takes part in emergency drills where the work place is evacuated, according to the procedures described in the emergency plan.
				Incorporates all employees during the evacuation process.	Assembly point is defined.		Executes given evacuation procedures.	Assists less experienced persons during an emergency drill and contributes to a complete evacuation of the work site.
			Knows the assembly point described in the emergency plan.	Ensures that all personnel is present at the assembly point.	Equipment and material as well as the respective user instructions are available.			
	F3.A2. Taking part in a rescue scenario on site.	**F3.A2.T20.** Anticipating developments in the workplace in order to faciliate rescue operations.	Implements equipment according to the prevention plan's recommendations and respects specific procedures.	Researches within the prevention plan inherent or necessary information regarding rescue procedures.	Prevention plan that includes all necessary information regarding rescue procedures is available on site.	Knows characteristics of an emergency plan and rescue related protocols.	Executes the rescue procedures described in the emergency plan.	Takes part in emergency drills where rescue operations according to the procedures described in the emergency plan are executed.
			Ensures that the own work position on site is permanently accessible by others.	Organizes his own work place in a way that an immediate reaction to any kind of emergency is granted and that the action is in conformity with the procedures described in the prevention plan.	Information describing the detailed role and task of every team member is available.	Knows the common procedures and devices to be used in a rescue scenario.		Equips his work place in a way that an immediate pick-off rescue is possible as described in the emergency plan.
			Informs his supervisor if complications arise or if shortcomings of available resources are detected on site.	Identifies areas where treatment of a casualty is possible and where the casualty and all rescuers are safe.	Definition of a safe area is provided.	Knows safety criteria for executing a rescue.		
		F3.A2.T21. Choosing appropriate rescue procedures.	Reacts to extraordinary incidents (related to a single person or a limited area) in an adequate way.		Prevention plan that includes all necessary information regarding rescue procedures is available on site.	Knows procedures how to take care of a person hanging in a harness (Intervention Plan, Flowchart) depending on the circumstances and the grade of the injury.	Implements different rigging techniques to lift and/or lower an incapcitated person.	Decides about access ways and necessary material to approach a casualty respecting the the characteristics of the site and the circumstances.
			Evaluates persisting dangers and conservation state of access and rescue facilities.	Identifies necessary human and other resources for the intervention and respects their capacities.	Documents or oral instructions defining the role and task of each staff member are available.	Knows the characteristics and operating mode of the common life saving appliances.	Selects necessary type and quantity of equipment to execute a rescue.	Adjusts rescue operations according to the situation and the casualtys condition.
			Estimates the level of an emergency and reacts according to the general situation and/or the injuries of the casualty(s).	Decides about the access method to the casualty and necessary equipment.		Knows different techniques of rescuing an icapacitaded person.	Chooses necessary human and material resources for the intervention and respects their capabilities and skills.	Adjusts the emergency call according to the rescue procedure and the specific situation on site.
			Evaluates the necessary and available technical and human resourses.	Adjusts rescue precedures according to the context and casualty's condition.	Information describing the detailed role and task of every team member is available.	Knows the different traumas, that might occur after falling from a height.	Transmits the emergency call to superiors and/or emergency services.	
				Knows the protocol to alert supervisors and/or emergency services.	Equipment and life saving appliances are available.	Knows the structure of an emergency call and protocols to follow when communicating with rescue services.	Meets and guides rescue services following the protocols defined in the emergency plan.	
						Is aware of the safety rules to obey during rescue operations.		
		F3.A2.T22. Rescuing a user of PPE against falls from height using a rescue lifting device.	Releases an incapacitated person.	Knows the operation mode of a rescue lifting device.	Necessary devices and instructions are available.	Knows characteristics and operating mode of rescue lifting devices.	Utilizes the defined method to lift and lower an incapacitated person with a rescue lifting device.	Anchors the rescue lifting device.
			Lowers or raises an incapacitated person to a safe area.	Executes rescue procedures adapted to the situation.	Prevention plan that includes all necessary information regarding rescue procedures is available on site.	Knows the techniques to pick off an incapacitated person using a rescue lifting device.	Chooses the place to treat the casualty ensuring his safety and the safety of all persons involved including external rescue services the casualty is handed over to.	Handles the rescue lifting device as per written procedure and guarantees safety of all persons involved in the rescue process.
				Lowers or raises an incapacitated person to a safe area.	Staff is trained in first aid.			
				Chooses the place to treat the casualty ensuring his safety and the safety of all persons involved.				
		F3.A2.T23. Rescuing a person incapable of action using rope access techniques and rope access equipment.	Performs a pick-off rescue using rope access equipment.	Performs a pick-off rescue using rope access equipment.	Necessary devices and instructions are available.	Knows rigging techniques to pick off and transport an incapacitated person.	Applies standards, code of best practice, technical manuals and guidelines specifying the nature of the industry.	Picks-off a casualty and guarantees safety of all persons involved.
			Evacuates an incapacitated person to a safe area using a rope access system.	Chooses the place to treat the casualty ensuring his safety and the safety of all persons involved.	Prevention plan that includes all necessary information regarding rescue procedures is available on site.		Uses a safe method to release an incapacitated person from a hanging position.	
			Communicates with the rescue services and/or his superiors.	Moves the casualty in all directions until he reaches a safe area where treatment and handover to rescue service is possible.	Staff is trained in first aid.		Chooses the place to treat the casualty ensuring his safety and the safety of all persons involved.	
			Ensures reception and briefing of the rescue services and stays at their disposal.				Moves the casualty in all directions until he reaches a safe area where treatment and handover to rescue service is possible.	
	F3.A3. Contributing assistance to resolve a complex situation which may deteriorate.	**F3.A3.T24.** Identifying and acting in critical situations (crisis).	Takes action within his authorization.	Identifies risks on his work place before a critical situation occurs.	Documents and procedures enabling staff to identify a critical situation (crisis) are available.	Knows the characteristics of a critical situation (crisis).	Identifies indicators of a critical situation (crisis).	Participates in immediate corrective actions during critical situations that ensure protection of people and property.
				Knows, within his limits and authorization, immediate corrective actions to guarantee safety of persons and material values.	Counter measures are communicated either in writing or verbally.	Knows the procedure to stop all operations in case of emergency.		Seizes immediate countermeasures that are within his power and ensures protection of persons and property.
				Knows the procedure to stop all operations in case of emergency.		Knows the different means and resources to protect and isolate the hazard zones.		Selects the necessary information to transmit to superiors, emergency services or his own team.
				Knows the different means and resources to protect and isolate the hazard zones.				

		F3.A3.T25. Applying substitutional progression techniques under exceptional circumstances.	Replaces lost equipment (descending device, ascender or back-up device) with adequate knots and auxiliary equipment.	Uses techniques and equipment of substitution in case of inability to use standard techniques and equipment.	Alternative techniques are known.	Visualises a clear picture of various friction hitches that can be used to replace a rope clamp.	Uses techniques and equipment of substitution in case of inability to use standard techniques and equipment.	Safely implements techniques and auxiliary equipment for progression in an emergency situation.
			Replaces a lost descending device with a Munter hitch in a carabiner.	Uses 2 ropes permanently, except for serious or imminent risk endangering the technician.	Auxiliary material is available.	Visualises a clear picture of various friction hitches that can be used to replace a back-up device.		Evaluates if the risk is imminent enough to justify the use of only one rope.
			Replaces a lost back-up device with a friction hitch.		Code of best practice is available.	Visualises a clear picture of various hitches that can be used to replace a descending device.	Ties various hitches.	
			Installs releasable ropes.			Knows methods to install and use releasable ropes.	Installs a releasable access system.	
			Ascends and descends on releasable ropes.					

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