



Europa Liit
Euroopa Sotsiaalliid



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

OCCUPATIONAL QUALIFICATION STANDARDS

EOD Technician-Instructor, Level 6

The Occupational Qualification Standards are documents that describe the work, a set of skills, knowledge and attitudes or competency requirements for successful performance of the work.

Uses of the professional standards

- 1) Compilation of curricula and training programs meeting the requirements of the labor market.
- 2) Assessment of people's competency, including self-assessment and assessment of conformity on awarding a profession;
- 3) Description and presentation of the occupations;
- 4) Career planning and laying the foundations for lifelong learning;
- 5) Identification of training needs and planning of training;
- 6) Preparation of job descriptions and recruitment of employees;
- 7) A comparison of occupations and qualifications.

Occupational Title	Estonian Qualifications Framework (EQF) level
EOD Technician-Instructor, Level 6	6

Part A DESCRIPTION OF WORK

A.1 Description of work

In the EOD Technician occupational qualifications are the occupational qualifications of EOD1 technician, EOD2 technician, EOD3 technician, EOD4 technician and EOC Technician-Instructor. Organization of the job training of the demining center and drawing up of training is based on international EOD (Explosive Ordnance Disposal) training principles and the safety rules; the name of the occupational qualification contains the acronym EOD.

The job of the EOD1 technician is to assist in identifying explosive ordnance and destruction of the explosive ordnances identified at the place of finding.

The job of the EOD2 technician is to assist in evaluation and determination of the level of safety of the items found, to move the item safely and to transport one or more items.

The job of the EOD3 technician is to identify the explosive ordnances and to assess the levels of safety of the items found, perform the procedures of recovery and to destroy any kind of ammunition.

The EOD4 technician is a specialist who has been trained and qualified to destroy the objects that require special techniques and skills, especially for handling of explosive devices and other improvised explosives (e.g., liquids in rocket engines, the munitions filled with depleted uranium, etc.).

An EOD technician-instructor is a professional who has passed all stages of mine clearance courses and



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

acquired a relevant competency. The job of the EOD technician-instructor is supervision, analysis of demining data and transfer of knowledge.

The purpose of the EOD technician-instructor is maintaining and enhancing the quality of mine clearance.

The EOD technician-instructor works in a team, his or her work involves interaction with colleagues, officials and private persons.

A.2 Work Units

The occupational qualification of an EOD technician-instructor consists of mandatory and elective work units.

MANDATORY WORK UNITS

- A.2.1 Planning and organization of work
- A.2.2. Performance of blasting
- A.2.3. Countering of bomb threats
- A.2.4. Countering of munitions threats
- A.2.5. Countering of explosion threats

THE ELECTIVE WORK UNITS

- A.2.6 – A.2.8 Performance of underwater mine clearance
- A.2.9 - A.2.11 Using an ED.
- A.2.12 - A.2.15 Countering a CBRN threat.

The list of work tasks related to work units is provided in Annex 1 "Work units and work tasks".

A.3 Working environment and the specificity of the work

The EOD technician-instructor works in a work environment with a heightened threat. His or her work environment is influenced by physical, chemical, physiological and psychological factors. The work is carried out both outdoors and indoors, and requires occasional physical effort. Employees must be aware of the health and environmental risks occurring in the work. The work is mentally and emotionally stressful, requires working at night, on weekends and public holidays. The main threats are injuries, illnesses, and work traumas resulting from explosions and chemicals, possible are any adverse health effects caused by various biological, chemical, natural and physical factors. In operation, it is important to meet the occupational safety rules and use personal protective equipment. Use of the bomb suit requires from the OED technician a good physical condition.

A.4 Work equipment

The main tools of the EOD technician-instructor are the protective clothing and protective equipment, explosives, water cannons, special charges, metal detectors, bomb robots, GPS devices, communications equipment, x-ray devices, cameras and video cameras, observation technical aids, bomb containers, support techniques and equipment (boat, backhoe, ATV, etc.).

A.5 Personal characteristics necessary for the work: aptitude and personality traits

Upon working on the occupational qualification of the EOD technician, the following are recommended personality traits, skills and abilities:



ESF program "Development of the system of qualifications"

- loyalty to the Republic of Estonia, honesty, dedication, and obedience to the laws;
- decision-making, responsibility, and a self-regulatory capacity, including the ability to stably and efficiently operate under pressure and the ability to manage and perform teamwork;
- tolerance, perseverance, creativity and openness, with good communication skills.

A.6 Professional training

In general, the EOD technician-instructor has a higher education and the professional skills acquired in the workplace. For an EOD technician-instructor at least 2 years' experience as an EOD technician is required.

A.7 The most common job titles

EOD technician, EOD Technician-Instructor.

A.8 Regulations for operating in the occupational qualification

Working in the area of mine clearance is governed by the laws in force in the Republic of Estonia (Civil Service Act, Rescue Act, Rescue Service Act, etc.), and requirements, regulations and other legislation in the IMAS-standards (International Standard in Action)



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



SIHTASUTUS
Kutsekoda

ESF program "Development of the system of qualifications"

Part B COMPETENCY REQUIREMENTS

B.1. Structure of the occupational qualification

The occupational qualification of an EOD technician-instructor consists of five mandatory and ten optional competencies.

Upon application for the occupational qualification certification of the mandatory competencies B.2.1 - B.2.5 and B.2.16 (transversal competencies) are required.

Of the optional competencies (B.2.6 - B.2.15) it is possible to select the competence of the appropriate level in three areas of operation: B.2.6 – B.2.8 Performance of underwater mine clearance, B.2.9 - B.2.11 and B.2.12 Use of EDD - B.2.15 Countering of CBRN threat. The indication on certification of the optional competency shall be entered in the certificate of the occupational qualification.

B.2 Competencies

MANDATORY COMPETENCIES

B.2.1 Planning and organization of work	ECT Level 6
<p><u>Performance indicators</u></p> <p>1) uses personal protective equipment (flak jacket, helmet, etc.) according to the safety instructions for mine clearance work, being the manager of the mine clearance work supervises the team members on preparation of the equipment; uses the prepared equipment in the category of danger arising from the munitions or explosive devices or gives orders for its use; keeps abreast with the innovations in equipment, in accordance with the acquisition of new equipment and supervises the others when using the equipment.</p> <p>2) directs mine clearance work at the scene or from at a distance (e.g., from a higher level headquarters) in the event of detection of any munitions and explosives according to the laws of mine clearance, the nature of the event and the circumstances at the scene; selects the appropriate tactics to resolve the situation in accordance with the detected munitions and explosive devices;</p> <p>3) plans and organizes blasting for disposal of munitions and explosive devices in accordance with the laws of mine clearance and the situation; selects a suitable and as safe as possible destruction method, based on the mine clearance laws and professional training, taking into account the surrounding environment; supervises the EOD technician of a higher level and the bomb technician on planning and organizing large-scale blasting;</p> <p>4) carries out explosion hazard related prevention and outreach work in schools, and according to the order in different institutions (private companies, public authorities, etc.), taking into account the annual plan of the EOD Centre, the national curriculum of basic and secondary schools, and prevention and awareness raising strategies; produces the lecture material according to the target audience, including exemplary teaching aids; instructs the lower level mine clearance technicians in preparation and carrying out prevention and awareness work, analyzes the work performed and in accordance with the results carries out changes in prevention and awareness raising programs, taking into account international trends;</p> <p>5) organizes, as appropriate, pedagogy and andragogy training, taking into account the curriculum of the EOD Centre; draws up new and/or adapts old teaching materials using a variety of sources, and being based on the logic of handling of the topic, takes into account the opportunities of the learning environment and the specificity of the specific study group, prepares, executes and performs the training</p>	



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

documentation in accordance with the procedure laid down in the EOD Centre.

Assessment method(s): Practical work, test.

B.2.2. Performance of blasting

ECT Level 6

Performance indicators

- 1) instructs at the blasting site the lower level OED technicians in preparation for blasting and limiting the danger zone, taking into account the safety instructions for mine clearance, determines the range of the danger zone and the suitable blasting method and calculates the camouflet, taking into account the site of blasting and the type of the munitions to be destroyed; instructs the preparation of blasting means and charges, using personal protective equipment and taking into account the safety instructions of mine clearance; instructs the installation of explosive charges and charges for special purposes in accordance with the mine clearance safety instructions, if necessary, performs it himself or herself; fills in the blasting sheet in accordance with the mine clearance laws, checks the compliance of the blasting preparation with the mine clearance laws; on the preparation of blasting, applies the measures provided in the Rescue Act;
- 2) directs the event at the site of its occurrence, sending a bomb technician to deal with countering of the threat and organizing the activities of other agencies involved in the events; determines the range of the danger zone, depending on the surrounding environment, circumstances and causes of the hazard; selects the appropriate tactics and combat methods for countering and destruction of the bomb threat, taking into account the safety instructions for mine clearance, liquidates the bomb threat, using the equipment prepared by lower level EOD technicians, implements the measures arising from the existing laws in conducting blasting, prepares a special charge (also on the spot); fulfills the prescribed reporting in accordance with the laws of mine clearance, analyzes the activities of the team to make corrections, and if omissions occur, organizes the necessary training;
- 3) directs the event at the site of its occurrence, sending a bomb technician to deal with countering of the threat and organizing the activities of other agencies involved in the events; determines the range of the danger zone, depending on the surrounding environment, circumstances and causes of the hazard; selects the appropriate tactics and combat method for countering a bomb threat, taking into account the safety instructions for mine clearance, liquidates the bomb threat, using the equipment prepared for lower level of EOD technicians or appoints a liquidator, implements the measures arising from the existing laws in conducting blasting, prepares a special charge (also on the spot); organizes a follow-up check and participates therein in accordance with the safety instructions, excluding the existence of the explosive residues, fulfills the prescribed reporting in accordance with the laws of mine clearance, analyzes the activities of the team to make corrections, and if omissions occur, organizes the necessary training;
- 4) directs the activities at the scene, sending a bomb technician to deal with countering of the threat arising from the explosive device and organizing the activities of other agencies involved in the events, if necessary, liquidates the threat arising from the explosive devices, selecting the appropriate method, tactics and tools; in case of an A category explosive device, selects the appropriate personal protective equipment, or abandons it, taking into account the specific nature of the event; arranges for packing of the physical evidence and recording of the facts at the scene in accordance with applicable laws; if necessary, performs the prescribed reporting in accordance with the laws of mine clearance; analyzes the activities of the team for making corrections and if omissions occur, organizes the necessary training;
- 5) directs and, if necessary, performs blasting in police and rescue operations, using the mandatory



Europa Liit
Euroopa Sotsiaalliid



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

personal protective equipment (helmet, flak vest, life jacket, etc.) in accordance with safety instructions for mine clearance; if necessary, issues an order for the equipment and tools to be used, organizes the maintenance of the equipment after the event; determines the range of the danger zone, if necessary, depending on the surrounding environment and circumstances in accordance with safety instructions for mine clearance, if necessary, prepares special charges (also on the site); verifies the safety of the scene of even after the end of the police and/or the rescue operation, analyzes the activities of the team for making corrections, if omissions occur, organizes the necessary training.

Knowledge:

- 1) types and parameters of explosions;
- 2) the effects of explosions on humans, facilities, and the environment;
- 3) determining the safe distance from an explosion;
- 4) ways of reducing the impact of the explosion, the protective measures;
- 5) signals for blasting.

Assessment Method(s): Practical work, test.

B.2.3. Countering of bomb threats

ECT Level 6

Performance indicators

- 1) directs the operation of the OED technicians at the scene, decides, if necessary, in coordination with the police for further action in accordance with the content of the threat; analyzes the earlier practice of bomb threats and the activities of the team for making corrections, if omissions occur, organizes training sessions; if necessary, performs the tasks of an OED technician;
- 2) directs the operation of the OED technicians at the scene, decides on the further action in accordance with the received information, analyzes the earlier practice related to suspicious objects and circumstances and the activities of the team for making corrections, if omissions occur, organizes training sessions; if necessary, performs the tasks of an OED technician, using the personal protective equipment (flak vest and helmet);
- 3) directs the operation of the OED technicians at the scene, decides, if necessary, in coordination with the police for further action in accordance with the submitted order; analyzes the earlier practice of bomb technical controls and the activities of the team for making corrections, if omissions occur, organizes training sessions; after the control, forwards all the information related to the bomb technical control to the police, if necessary, performs the tasks of an OED technician, using the personal protective equipment (at least the flak vest) in accordance with the special nature of bomb technical control;
- 4) directs the activities at the scene, sending a bomb technician to deal with countering the threat arising from the explosive device and organizing the activities of other agencies involved in the events, if necessary, liquidates or neutralizes himself or herself to the threat arising from the explosive devices, selecting the appropriate method, tactics and tools; decides on the intervention or non-intervention in accordance with the nature of the situation, his or her specific knowledge and the safety instruction of mine clearance; in case of an A category explosive device, selects the appropriate personal protective equipment, or abandons it, taking into account the specific nature of the event; arranges for packing of the physical evidence and recording of the facts at the scene in accordance with applicable laws; performs the prescribed reporting in accordance with the laws of mine clearance; analyzes the activities of the team for making corrections and if omissions occur, organizes the necessary training;
- 5) directs at the scene the operation of OED technicians and shall, where appropriate, perform the duties of an OED technician; analyzes and, where necessary, transmits the information from the scene of the event to the Authority for investigative processing of the event, takes into account the previous practice and the work of the team for improving the work in the future, if omissions occur, organizes



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

training sessions.
<u>Knowledge:</u> 1) the defensive capacity of personal protection equipment; 2) observation technical aids and their use.
<u>Assessment Method(s):</u> Practical work, test.

B.2.4. Countering of munitions threats	ECT Level 6
<u>Performance indicators</u> 1) analyzes and checks the safe handling of the ammunition and ordinances prescribed for work and found in mine clearance calls, the related previous practices and team activities to make corrections; if omissions occur, organizes training sessions; where appropriate, performs the duties of an OED technician; 2) analyzes and checks the safe handling of the used EOD-UXO tactics, the related previous practices and team activities to make corrections; if omissions occur, organizes training sessions; keeps abreast with the innovations of EOD-UXO tactics and instructs others in deployment of new tactics, where appropriate, performs the duties of an OED technician; 3) performs the internal monitoring for checks of the work quality in accordance with the IMAS standards (<i>International Mine Action Standards</i>), analyzes the earlier practices of clearing of mine fields, former battlefields or a polygon and the activities of the team for making corrections, if omissions occur, organizes training sessions; if necessary, performs the tasks of an OED technician;	
<u>Knowledge:</u> 1) types and construction of ammunition and munitions; 2) types of explosive charges and their installation, 3) minefield installation methods and the types of minefields; 4) tactics of a mine clearing group on the search for munitions.	
<u>Assessment Method(s):</u> Practical work, test.	

B.2.5. Countering of the explosion threat	ECT Level 6
<u>Performance indicators</u> 1) analyzes the earlier practice of bomb threats and the activities of the team for making corrections, if omissions occur, organizes training sessions; directs the mine clearance activities related to the countering of a threat of an explosive device in accordance with the law, if necessary, performs the tasks of an OED technician; 2) analyzes the earlier practices related to the threat arising from countering of the munitions and the activities of the team for making corrections, if omissions occur, organizes training sessions; if necessary, performs the tasks of an OED technician; 3) analyzes the earlier practice related to the countering of a CBRN threat arising from munitions and the activities of the team for making corrections, if omissions occur, organizes training sessions; if necessary, performs the tasks of an OED technician;	
<u>Knowledge:</u> 1) types and parameters of explosions;	
<u>Assessment Method(s):</u> Practical work, test.	

OPTIONAL COMPETENCIES

B.2.6 Performance of underwater mine clearance EOD3	ECT Level 5
<u>Performance indicators</u>	



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

- 1) prepares before diving the personal equipment and search equipment, searches for munitions underwater in accordance with applicable laws, using sonar, underwater mine detectors, and other special underwater equipment, secures or provides protection to the OED technician working underwater on searching for an explosive device in accordance with applicable laws, fulfills the diver's logbook in accordance with applicable laws;
- 2) prepares before diving the identification equipment, identifies the munitions underwater in accordance with applicable laws, using an underwater camera and other special underwater equipment, secures or provides protection to the OED technician on identification of an explosive device in accordance with applicable laws, fulfills the diver's logbook in accordance with applicable laws;
- 3) prepares before diving the equipment for lifting to the surface, lifts the munitions to the surface in accordance with applicable laws, using a lift bag and a winching device or other equipment; fills the diving logbook in accordance with applicable laws;
- 4) prepares before diving the personal equipment and the equipment of the team and the blasting tools and charges, renders harmless the munitions under water in accordance with applicable laws, fulfills the diver's logbook in accordance with applicable laws;

Knowledge:

- 1) the basics of diving;
- 2) effects of pressure;
- 3) choice of diving equipment;
- 4) planning for a dive;
- 5) underwater navigation;
- 6) diving with a computer;
- 7) diving in the dark.

Assessment Method(s): Practical work, test.

B.2.7 Performance of underwater mine clearance EOD4

ECT Level 5

Performance indicators

- 1) searches for munitions and explosive devices underwater in accordance with applicable laws, using sonar, underwater mine detectors, and other special underwater equipment, in accordance with applicable laws manages the diving work in the underwater search of munitions and explosive devices, fills the diving logbook and diving books, checks the personal equipment of the divers and the equipment of the team, checks the communication equipment before the diving work, marks the diving location before diving, determines the divers to work and the divers for securing and gives the permission to dress;
- 2) identifies the underwater munitions and explosive devices in accordance with applicable laws, using an underwater camera and other special underwater equipment, in accordance with applicable laws manages the diving work in identification of munitions and explosive devices, fills the diving logbook and diving books, checks the personal equipment of the divers and the equipment of the team, checks the communication equipment before the diving work, marks the diving location before diving, determines the divers to work and the divers for securing and gives the permission to dress;
- 3) lifts the underwater munitions and explosive devices to the surface in accordance with applicable laws, using a lifting bag and a winching device or other equipment; in accordance with applicable laws manages the diving work in lifting of the munitions and explosive device to the surface, fills the diving logbook and diving books, checks the personal equipment of the divers and the equipment of the team, checks the communication equipment before the diving work, marks the diving location before diving, determines the divers to work and the divers for securing and gives the permission to dress; in



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

<p>accordance with the specific nature of the work, the situation and the tactics, determines the method of lifting, determines the way and the journey of the above water transportation and the way of delivering of the explosive device;</p> <p>4) renders harmless the munitions and explosive devices underwater in accordance with applicable laws, using blasting devices and charges; in accordance with applicable laws manages the diving work, fills the diving logbook and diving books, checks the personal equipment of the divers and the equipment of the team, checks the communication equipment before the diving work, marks the diving location before diving, determines the divers to work and the divers for securing and gives the permission to dress;</p>	
<p><u>Knowledge:</u></p> <p>1) the basics of diving;</p> <p>2) effects of pressure;</p> <p>3) choice of diving equipment;</p> <p>4) planning for a dive;</p> <p>5) underwater navigation;</p> <p>6) diving with a computer;</p> <p>7) diving in the dark.</p>	
<p><u>Assessment Method(s):</u> Practical work, test.</p>	
<p>B.2.8 Instructor of underwater mine clearance</p>	<p>ECT Level 6</p>
<p><u>Performance indicators</u></p> <p>1) analyzes the earlier practice of underwater searches for mines and explosive devices and the activities of the team for making corrections, organizes the training camps for dives in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician;</p> <p>2) analyzes the earlier practices of underwater searches for mines and explosive devices and the activities of the team for making corrections, organizes the training camps for dives etc., in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician;</p> <p>3) directs mine clearance activities related to underwater mine clearance work, analyzes the earlier practices of underwater searches for mines and explosive devices and the activities of the team for making corrections, organizes the training camps for dives etc., in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician;</p> <p>4) analyzes the earlier practices of underwater rendering of mines and explosive devices harmless and the activities of the team for making corrections, organizes the training camps of dives etc., in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician;</p>	
<p><u>Knowledge:</u></p> <p>1) the basics of diving;</p> <p>2) effects of pressure;</p> <p>3) choice of diving equipment;</p> <p>4) planning for a dive;</p> <p>5) underwater navigation;</p> <p>6) diving with a computer;</p> <p>7) diving in the dark.+</p>	
<p><u>Assessment Method(s):</u> Practical work, test.</p>	
<p>B.2.9 Using an explosive detection dog EOD1</p>	<p>ECT Level 4</p>
<p><u>Performance indicators</u></p> <p>1) according to the supervision of a higher level OED technician, ensures for the dog the necessary daily</p>	



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

<p>movement, feeding and care; 2) teaches and trains a dog in accordance with the instructions of a higher level dog handler; 3) fulfills the orders of the mine clearance manager at the scene, uses the personal protective equipment (flak vest, helmet, etc.) in accordance with applicable laws.</p>
<p><u>Knowledge:</u> 1) basics of dog training, the instincts, the development stages, the senses, the learning processes; 2) dissemination of explosives and odor molecules.</p>
<p><u>Assessment Method(s):</u> Practical work, test.</p>

B.2.10 Using an explosive detection dog EOD3	ECT Level 5
<p><u>Performance indicators</u> 1) ensures for the dog the necessary daily movement, feeding and care; monitors the health condition of the dog and notifies a higher level OED technician of the necessity of performance of veterinary procedures; 2) teaches and trains a dog in accordance with the instruction of a higher level dog handler; organizes individual trainings for the dog according to the training plan; instructs other dog handlers on training of dogs; 3) uses the appropriately trained dog on detection of explosives; coordinates the use of ED dogs at the scene; performs the orders of the leader of the mine clearance work at the scene; uses personal protective equipment (flak vest, helmet, etc.) in accordance with applicable laws; where necessary, fills the tasks of the leader of mine clearance work at the scene, makes proposals for organization of the necessary training.</p>	
<p><u>Knowledge:</u> 1) basics of dog training, their instincts, the development stages, the senses, the learning processes; 2) dissemination of explosives and odor molecules; 3) the possibilities and the purpose of using ED dogs in response to bomb incidents; 4) the use of the bomb suit on dog training and on calls.</p>	
<p><u>Assessment Method(s):</u> Practical work, test.</p>	

B.2.11 Instructor of using an explosive detection dog	ECT Level 6
<p><u>Performance indicators</u> 1) ensures for the dog the necessary daily movements, feeding and care; monitors the health condition of the ED dogs and coordinates the performance of veterinary procedures, selects the appropriate ED dogs for the operation, organizes the provision of the ED dogs with the necessary equipment and food; keeps abreast on innovations in dog breeding, care and keeping and introduces them among other dog handlers; 2) In accordance with the applicable laws, plans and organizes training for dog handlers and dogs, creates new or complements the old teaching materials; organizes the evaluation of dogs in accordance with the annual plan of the EOD Centre; keeps abreast of new trends and methodologies in the profession and applies them to organizing training; if necessary, performs the tasks of EOD technician of other levels on training and education of ED dogs; 3) if necessary, performs the tasks of the leader of the mine clearance work at the scene; uses personal protective equipment (flak vest, helmet, etc.) in accordance with applicable laws; uses the appropriately trained dog on the detection of explosives; coordinates the use of ED dogs at the scene; analyses the performance of the calls occurred and takes the results thereof in preparing training plans, participates in the development of the strategies and tactics of the use of ED dogs in accordance with the nature of</p>	



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

the calls.
<u>Knowledge:</u> 1) basics of dog training, their instincts, the development stages, the senses, the learning processes; 2) dissemination of explosives and odor molecules; 3) the possibilities and the purpose of using ED dogs in response to bomb incidents; 4) the use of the bomb suit on dog training and on calls.
<u>Assessment Method(s):</u> Practical work, test.

B.2.12 Countering of CBRN threats EOD2	ECT Level 4
<u>Performance indicators</u> 1) restricts the CBRN hazard zone, using the personal protective equipment of diving into the CBRN environment in accordance with the orders of the head of the dive into the CBRN environment; 2) limits the hazard zone on detection of a CBRN threat, using personal protective equipment in accordance with the orders of the head of operations; 3) limits the hazard zone on neutralization/removal of the contamination, using personal protective equipment in accordance with the orders of the head of operations;	
<u>Knowledge:</u> 1) the classification of dangerous substances; 2) chemical warfare agents; 3) biological warfare agents; 4) ionizing radiation; 5) CBRN protection equipment; 6) tactics of contamination removal.	
<u>Assessment Method(s):</u> Practical work, test.	

B.2.13 Countering of CBRN threats EOD3	ECT Level 5
<u>Performance indicators</u> 1) prepares the equipment and supplies for diving into the CBRN environment in accordance with the orders of the EOD technician; prepares the means of the intelligence of the scene and controls the bomb-disposal robot, assists the EOD technician on performing the intelligence of the scene in accordance with applicable laws; 2) assists the EOD technician on identifying and countering the threat of CBRN; prepares the equipment and measuring instruments for a CBRN hazard identification and countering in accordance with applicable laws; 3) manages the erection of contamination removal points, taking into consideration the wind direction and other environmental impacts (e.g., proximity to bodies of water, temperature, precipitation); is responsible for the cleaning of the equipment and machinery used in the CBRN environments in accordance with applicable laws.	
<u>Knowledge:</u> 1) the classification of dangerous substances; 2) chemical warfare agents; 3) biological warfare agents; 4) ionizing radiation; 5) CBRN protection equipment; 6) tactics of contamination removal.	
<u>Assessment Method(s):</u> Practical work, test.	



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

B.2.14 Countering of CBRN threats EOD4	ECT Level 5
<p><u>Performance indicators</u></p> <p>1) determines the level of protection of personal protective equipment and the range of the danger zone in accordance with the data of the intelligence at the scene; leads the team diving into the CBRN environment diving team in accordance with applicable laws, using the equipment and tools of diving into the CBRN environment (the suit, breathing apparatus, etc.); shall, where appropriate, perform the tasks of a lower level EOD technician;</p> <p>2) detects CBRN threats, using radiation and poison attack detection instrumentation; on the basis of the identified risk determines the manner and means of neutralization; renders harmless or neutralizes the source of a CBRN threat in accordance with applicable laws; shall, where appropriate, perform the tasks of a lower level EOD technician;</p> <p>3) leads the work at the decontamination point, is responsible for the collection contamination residues in accordance with applicable laws; after decontamination, checks the cleanliness of the team that dived into the CBRN environment, shall, where appropriate, perform the tasks of a lower level EOD technician.</p>	
<p><u>Knowledge:</u></p> <p>1) the classification of dangerous substances;</p> <p>2) chemical warfare agents;</p> <p>3) biological warfare agents;</p> <p>4) ionizing radiation;</p> <p>5) CBRN protection equipment;</p> <p>6) tactics of contamination removal.</p>	
<p><u>Assessment Method(s):</u> Practical work, test.</p>	

B.2.15 Instructor of countering CBRN threats	ECT Level 6
<p><u>Performance indicators</u></p> <p>1) analyzes the previous practice of diving into the CBRN environment and the team's activities for making corrections; keep up to date with the tactics and equipment innovations related to the CBRN field and organizes relevant trainings; shall, where appropriate, perform the tasks of an EOD technician;</p> <p>2) analyzes the previous practice of detection and countering of CBRN threat and the team's activities for making further corrections; keeps up to date with the tactics and equipment innovations related to the field of identification and countering of CBRN threat and organizes relevant trainings; shall, where appropriate, perform the tasks of an EOD technician;</p> <p>3) analyzes the previous practice of decontamination and/or neutralization and the team's activities for making corrections; keeps up to date with the innovations in the relevant field and organizes relevant training; shall, where appropriate, perform the tasks of an EOD technician.</p>	
<p><u>Knowledge:</u></p> <p>1) the classification of dangerous substances;</p> <p>2) chemical warfare agents;</p> <p>3) biological warfare agents;</p> <p>4) ionizing radiation;</p> <p>5) CBRN protection equipment;</p> <p>6) tactics of contamination removal.</p>	
<p><u>Assessment Method(s):</u> Practical work, test.</p>	

TRANSVERSAL COMPETENCIES



Euroopa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

B.2. B.2.12 EOD Technician-Instructor, level 6, transversal competencies	ECT Level 6
<u>Performance indicators</u>	
<p>1) analyzes the handling of explosives; keeps abreast of innovations in the relevant field and with the incidents occurred, and consequently organizes training; if necessary, perform the tasks of an EOD technician;</p> <p>2) provides the victim(s) with life-saving first aid in accordance with the requirements for the provision of first aid; assesses the security situation in the workplace; instructs the removal of the victim out of the danger area; delegates emergency duties; plans and coordinates the evacuation of the victim from the workplace to the medical institution; will contact the medical institution or organization that is required to assist with placing the victims at an appropriate medical institution; prepares a response plan to a mine clearance accident; analyzes the team's activities in the event of a mine clearing accident and organizes training;</p> <p>3) performs emergency driving, taking into account the current laws and the specific nature of the mine clearance works, analyzes the operation of the team in the emergency drive, keeps up to date with changes in the law and with the incidents occurred and, if necessary, arranges for the necessary training;</p> <p>4) according to an incident occurred evaluates the situation and prepares and manages the post-event analysis;</p> <p>5) uses in her or his work the computer on the levels: AO1 - Basic Concepts of Information Technology and the Information Society, AO2 - Using the Computer and Managing of Files, AO3 - Word Processing, AO4 - Spreadsheets, AO5 - Databases AO6 - Presentation, AO7 - Information and communication (see Annex 2 "Computer proficiency criteria");</p> <p>6) uses in his or her work the Estonian language at level C1 and one foreign language (preferably English) at level B2 (see Annex 3 "The scale of evaluation of language proficiency").</p>	
<u>Knowledge:</u>	
<p>1) basics of pedagogy and andragogy;</p> <p>2) basics of management.</p>	
<u>Assessment Method(s):</u>	
<p>Transversal competencies are assessed in an integrated way in the course of the assessment of other competencies provided in the occupational standard.</p>	



Europa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



ESF program "Development of the system of qualifications"

Part C

GENERAL INFORMATION AND ANNEXES

C.1 Information for the preparation and approval of the occupational standard, the awarding body, and a reference to the location of the occupational standard in the classifications	
1. The marking of the occupational standard in the occupational qualification register	18-03092012-05/1k
2. The occupational qualification standard compiled by the names of people and organizations	Ando Piirsoo EOD Center of the Rescue Board Arno Pugonen, EOD Center of the Rescue Board Margus Möldri, Academy of Security Sciences Reelika Ein, Rescue Board
3. Occupational qualification standard approved by	Professional Council for Legal Protection and Public Defense
4. Professional Council Decision No.	7
5. Date of Professional Council Decision.	03.09.2012
6. Occupational standard valid until (date)	02.09.2017
7. Occupational standard version number (1-n)	1
8. Reference to the Classification of Occupations (ISCO 08)	33
9. Reference to the European Qualifications Framework (EQF)	5
C.2 Occupational title in a foreign language	
In English EOD technician	
In Russian Взрывотехник	
In Finnish Miinaraivaaja	
C.3 Annexes	
Annex 1 Work units and work tasks	
Annex 2 The Criteria of Computer Proficiency	
Annex 3 Language proficiency assessment scale	

Work units and work tasks

		EOD1 Technician Level 4	EOD2 Technician Level 4	EOD3 Technician Level 5	EOD4 Technician Level 5	EOD Technician- Instructor, Level 6
1. Planning and organization of work						
1.1	Use of equipment of the bomb group	x	x	x	x	x
1.2	Management of demining operations on the scene			x	x	x
1.3	Planning and organization of blasting			x	x	x
1.4	Organization and conducting of information and prevention work	x	x	x	x	x
1.5	Arranging and conducting training			x	x	x
2. Performance of blasting						
2.1	Preparation for blasting	x	x	x	x	x
2.2	Performance of blasting for countering a bomb threat	x	x	x	x	x
2.3	Performance of blasting for countering a munitions threat	x	x	x	x	x
2.4	Countering the threat from an explosive devices with an explosive			x	x	x
2.5	Blasting in police and rescue operations			x	x	x
3. Countering of bomb threats						
3.1	Responding to a bomb threat	x	x	x	x	x
3.2	Responding to a suspected bomb	x	x	x	x	x
3.3	Performance of explosive detection	x	x	x	x	x
3.4	Using of IEDD tactics			x	x	x
3.5	Performance of post-explosion work	x	x	x	x	x
4. Countering of a munitions threat						
4.1	Safe handling of ammunition and ordnances	x	x	x	x	x
4.2	Using of EOD-UXO tactics	x	x	x	x	x
4.3	Work in the minefield and cleaning of former battlefields and polygons	x	x	x	x	x
5. Countering of the explosion threat						
5.1	Countering of the threat from an explosive device			x	x	x
5.2	Countering of the threat from munitions	x	x	x	x	x
5.3	Countering of a CBRN threat arising from munitions			x	x	x

		EOD1 Technician Level 4	EOD2 Technician Level 4	EOD3 Technician Level 5	EOD4 Technician Level 5	EOD Technician- Instructor, Level 6
Optional competencies						
6. Performance of underwater mine clearance EOD3						
6.1	Underwater search of munitions and explosive devices			x	x	x
6.2	Detection of munitions and explosive devices			x	x	x
6.3	Raising to the surface of munitions and explosive devices			x	x	x
6.4	Underwater clearance of mines and explosive devices			x	x	x
7. Performance of underwater mine clearance EOD4						
7.1	Underwater search of munitions and explosive devices			x	x	x
7.2	Detection of munitions and explosive devices			x	x	x
7.3	Raising to the surface of munitions and explosive devices			x	x	x
7.4	Underwater clearance of mines and explosive devices			x	x	x
8. Instructor of underwater mine clearance						
8.1	Underwater search of munitions and explosive devices			x	x	x
8.2	Detection of munitions and explosive devices			x	x	x
8.3	Raising to the surface of munitions and explosive devices			x	x	x
8.4	Underwater clearance of mines and explosive devices			x	x	x
9. Using an explosive detection dog EOD1						
9.1	Breeding, care and keeping of an explosive detection dog	x	x	x	x	x
9.2	Coaching and training of an explosive detection dog	x	x	x	x	x
9.3	Working with a explosive detection dog	x	x	x	x	x
10. Using of an explosive detection dog EOD3						
10.1	Breeding, care and keeping of an explosive detection dog	x	x	x	x	x
10.2	Coaching and training of an explosive detection dog	x	x	x	x	x
10.3	Working with a explosive detection dog	x	x	x	x	x
11. Instructor of using of an explosive detection dog						
11.1	Breeding, care and keeping of an explosive detection dog	x	x	x	x	x
11.2	Coaching and training of an explosive detection dog	x	x	x	x	x
11.3	Working with a explosive detection dog	x	x	x	x	x
12. Countering of a CBRN threat EOD2						
12.1	Diving into the CBRN environment			x	x	x
12.2	Identification and countering of threats			x	x	x

ESF program "Development of the system of qualifications"

12.3	Contamination neutralization/removal			X	X	X
		EOD1 Technician Level 4	EOD2 Technician Level 4	EOD3 Technician Level 5	EOD4 Technician Level 5	EOD Technician- Instructor, Level 6
13. Countering of a CBRN threat EOD3						
13.1	Diving into the CBRN environment			X	X	X
13.2	Identification and countering of threats			X	X	X
13.3	Contamination neutralization/removal			X	X	X
14. Countering of a CBRN threat EOD4						
14.1	Diving into the CBRN environment			X	X	X
14.2	Identification and countering of threats			X	X	X
14.3	Contamination neutralization/removal			X	X	X
15. Instructor of countering a CBRN threat						
15.1	Diving into the CBRN environment			X	X	X
15.2	Identification and countering of threats			X	X	X
15.3	Contamination neutralization/removal			X	X	X