

OCCUPATIONAL QUALIFICATION STANDARDS

EOD Technician, Level 5

The Occupational Qualification Standard 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 of the occupational qualification
- 3) Description and presentation of the occupations;
- 4) Career planning and laying the foundations for lifelong learning;
- 5) Identification of training needs and planning for the 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, Level 5	5

Part A DESCRIPTION OF WORK

A.1 Description of work

In the EOD Technician, occupational qualification are the occupational qualifications of EOD1 technician, EOD2 technician, EOD3 technician, EOD4 technician and EOD 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 ordnances 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 items 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.).



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An EOD technician-instructor is a professional who has passed all stages of mine clearance courses and acquired a relevant competency. The job of the EOD technician-instructor is supervision, analysis of demining data and transfer of knowledge.

The goal of an EOD technician is the destruction, rendering harmless and neutralizing of improvised explosive devices and the instruction of mine clearance personnel on performance of their duties.

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

A.2 Work Units

The occupational qualification of an EOD technician 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 of an ED.
- A.2.12 - A.2.15 Countering CBRN threats.

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 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 the OED technician to be in good physical condition.

A.4 Work equipment

The main tools of the EOD technician 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:

- 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



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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

Generally, an EOD technician has a secondary education and has completed trainings in the training program of a mine clearer/EOD technician and the occupational skills acquired in the workplace. An EOD technician (EOD4) has been working as an EOD3 technician for at least four years.

A.7 The most common job titles

EOD technician.

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)



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Part B COMPETENCY REQUIREMENTS

B.1. Structure of the occupational qualification

The occupational qualification of an EOD technician (EOD4) consists of five mandatory and ten optional competencies.

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

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 a CBRN threat. The indication upon 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 5
<u>Performance indicators</u>	
<p>1) uses personal protective equipment (flak jacket, helmet, etc.) according to the safety instructions for mine clearance works, if necessary, prepares for the team the equipment used on mine clearance tasks depending on the mine clearing operation and in accordance with the orders of the leaders of the mine clearing 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.</p> <p>2) leads the mine clearance work at the scene in the event of a detection of any munitions and explosives according to the laws of mine clearance and the nature of the event; 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 nature of 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;</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 strategy; 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 of prevention and awareness work;</p> <p>5) organizes training sessions on a given topic using a variety of teaching and learning methods; prepares the content of a training class, on the basis of the study program.</p>	
<u>Assessment Method(s):</u> Practical work, test.	
B.2.2. Performance of blasting	ECT Level 5
<u>Performance indicators</u>	
<p>1) assists at the blasting site the leader in the mine clearance work 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</p>	



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account the site of blasting and the type of the munitions to be destroyed; prepares the blasting means and charges, prepares the ignitor(s) using the personal protective equipment and taking into account the safety instructions of mine clearance; installs the explosive charges in accordance with the mine clearance safety instructions of the EOD Center, prepares and installs explosive charges in accordance with the mine clearance safety instructions of the EOD Center, fills in the blasting sheet in accordance with the mine clearance laws, checks the operation of the mine clearance team on preparation of the blasting work; and if necessary, on the preparation of blasting applies the measures provided in the Rescue Act;

2) 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 bomb threats, 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 the liquidator, implements the measures arising from the existing laws in conducting blasting, if necessary, prepares a special charge (also on the spot); fulfills the prescribed reporting in accordance with the laws of mine clearance;

3) 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 or appoints the liquidator, implements the measures arising from the existing laws in conducting blasting, if necessary, prepares a special charge (also on the spot); performs the follow-up check and participates therein according to the safety instructions, avoiding the existence of explosive residues, fulfills the prescribed reporting in accordance with the laws of mine clearance;

4) performs blasting operations in police and rescue operations, using the mandatory 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, depending on the surrounding environment and circumstances in accordance with safety instructions for mine clearance, prepares special charges (also at the site); verifies the safety of the scene after the end of the police and/or the rescue operation.

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 5

Performance indicators

1) collects from the primary source, the object holder etc., the detailed information associated with the bomb threat and the person issuing the bomb threat (time, content, place etc., of the threat); decides in concert with the police for further action in accordance with the content of the threat; when in the course of a bomb threat a suspicious object is found, acts in accordance with the bomb threat response procedures;

2) collects from the primary source, the holder of the object etc., detailed information on suspected



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bomb-related suspicious objects and/or circumstances (technical information, the place and time of finding, etc.); decides on further action according to the received information; if in the course of investigation the suspicious object proves to be munitions or an explosive device, acts in accordance with safety instructions for mine clearance; using personal protective equipment (flak vest and a helmet);

3) prepares and collects from the holder of the checked object the information and documentation related to the object; in cooperation with the police coordinates further action in accordance with the specific features of the object and the information available; if necessary, performs the tasks of mine clearance personnel; uses personal protective equipment (at least a flak vest) according to the specific nature of the technical inspection of the bomb; after the checking, forwards all the information relating to the technical inspection of the bomb to the police; if the technical inspection reveals a suspicious object, acts in accordance with safety instructions for mine clearance;

4) liquidates or neutralizes the threat arising from 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; if necessary, 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;

5) organizes the work at the place of the explosion in accordance with the safety instructions of mine clearance; sets the scope of the limitations at the scene and organizes the division of labor at the explosion site, organizes the check of secondary hazards in accordance with the orders of the head of mine clearance operations; uses protective equipment in accordance with the nature of the secondary hazards, organizes evidence collection, recording and packaging in collaboration with the police, taking into account the procedure laid down in legislation; organizes the maintenance of physical evidence collected at the scene, until the transfer of the objects to the police or other investigative agencies; if the secondary inspection reveals a suspicious object the EOD technician operates in accordance with safety instructions for mine clearance.

Knowledge:

- 1) the defensive capacity of personal protection equipment;
- 2) the observation technical aids and their use.

Assessment Method(s): Practical work, test.

B.2.4. Countering of munitions threats

ECT Level 5

Performance indicators

1) handles the live ammunition and ordinances used for work, and found during the mine clearance calls, safely in accordance with applicable laws; identifies the live ammunition and ordinances found during the mine clearance calls and destroys it in accordance with applicable laws, uses the ammunition and ordinances intended for mine clearance for destruction of explosive devices;

2) in mine clearance, works with an elevated risk uses the prescribed assistance and specific facilities; determines the appropriate EOD UXO tactics according to the munitions found or to be liquidated; performs the operations related to the found munitions or searching for them in accordance with applicable laws; determines the method of rendering harmless (inertia, destruction, dismantling, etc.) according to the munitions; possesses special skills for handling modern munitions;

3) analyzes explosion craters to evaluate the weapon system, the caliber and the shooting direction, using the prescribed tools; decides on further action in accordance with the nature of the landmines,



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unexploded ordinances and explosive devices, and destroys them according to the characteristics of the find, performs a technical and non-technical study of a minefield, a former battlefield or a polygon, according to IMAS standards (*International Mine Action Standard*); fills the necessary documentation in accordance with the requirements of IMAS and IMSMA or another program.

Knowledge:

- 1) types and construction of ammunition and munitions;
- 2) types of explosive charges and their installation,
- 3) minefields installation methods and the types of minefields;
- 4) tactics of a mine-clearing group in the search for munitions.

Assessment Method(s): Practical work, test.

B.2.5. Countering of the explosion threats

ECT Level 5

Performance indicators

- 1) deactivates, destroys or neutralizes the explosive device in accordance with the hazard category; assesses the hazard category, based on the specific situation and the safety instructions for mine clearance, in exceptional cases (explosive device on humans, at a site with a high hazard category, etc.) manually enters the explosive device and decides whether or not to use the personal protective equipment;
- 2) determines the range of the danger zone, if necessary, depending on the surrounding environment, circumstances and cause of the hazard; where necessary, selects suitable tactics for countering the hazard of munitions, taking into account safety instructions for mine clearance; identifies the found munitions and checks the immediate surroundings of the locality; determines the hazard category of the explosive device and, consequently, the further actions; fills the prescribed reporting in accordance with the laws of mine clearance, leads the mine clearance event related to countering the hazard arising from the munitions;
- 3) determines the range of the danger zone, depending on the surrounding environment, circumstances and the cause of the hazard; identifies the CBRN munitions on the basis of the labeling and circumstances and selects the appropriate tactics for countering the hazard, renders harmless or neutralizes the CBRN munitions in accordance with applicable laws; leads the mine clearance event related to countering the hazard arising from CBRN.

Knowledge:

- 1) types and parameters of explosions;

Assessment Method(s): Practical work, test.

OPTIONAL COMPETENCIES

B.2.6 Performance of underwater mine clearance EOD3

ECT Level 5

Performance indicators

- 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 under water in accordance with applicable laws, using the underwater camera and other special underwater equipment, secures or provides protection to the OED technician on identification of an explosive device



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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, 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) the 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 underwater search of munitions and explosive device, 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 underwater cameras 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 the 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 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 the explosive device;
- 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;



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<p><u>Knowledge:</u></p> <ol style="list-style-type: none"> 1) the basics of diving; 2) the 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. <p><u>Assessment Method(s):</u> Practical work, test.</p>

B.2.8 Instructor of underwater mine clearance	ECT Level 6
<p><u>Performance indicators</u></p> <ol style="list-style-type: none"> 1) 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 of dives in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician; 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 of dives etc. in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician; 3) directs the 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 of dives etc. in accordance with the annual plan of the EOD Centre, if necessary, performs the tasks of an OED technician; 4) analyzes the earlier practices of the underwater task of rendering harmless the mines and explosive devices 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><u>Knowledge:</u></p> <ol style="list-style-type: none"> 1) the basics of diving; 2) the 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. <p><u>Assessment Method(s):</u> Practical work, test.</p>	

B.2.9 Using of an explosive detection dog EOD1	ECT Level 4
<p><u>Performance indicators</u></p> <ol style="list-style-type: none"> 1) according to the supervision of a higher level OED technician ensures for the dog the necessary daily 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><u>Knowledge:</u></p> <ol style="list-style-type: none"> 1) basics of dog training, the instincts, the development stages, the senses, the learning processes; 2) dissemination of explosives and odor molecules. 	



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Assessment Method(s): Practical work, test.

B.2.10 Using of an explosive detection dog EOD3

ECT Level 5

Performance indicators

- 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 for veterinary procedures;
- 2) teaches and trains a dog in accordance with the instruction of the 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 the detection of explosives; coordinates the use of ED dogs at the scene; performs the orders of the leader of the mine clearance works on 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 works on the scene, makes proposals for organization of the necessary training.

Knowledge:

- 1) basics of dog training, the 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.

Assessment Method(s): Practical work, test.

B.2.11 Instructor of using of an explosive detection dog

ECT Level 6

Performance indicators

- 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 trainings 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 an 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 on the scene; uses personal protective equipment (flak vest, helmet, etc.) in accordance with applicable laws; uses the appropriately trained dog on detection of explosives; coordinates the use of ED dogs at the scene; analyzes 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 the calls.

Knowledge:

- 1) basics of dog training, the 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.

Assessment Method(s): Practical work, test.



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B.2.12 Countering of CBRN threats EOD2	ECT Level 4
<p><u>Performance indicators</u></p> <p>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 diving into the CBRN environment;</p> <p>2) limits the hazard zone on detection of the CBRN threat, using personal protective equipment in accordance with the orders of the head of operations;</p> <p>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;</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.2.13 Countering of CBRN threats EOD3	ECT Level 5
<p><u>Performance indicators</u></p> <p>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;</p> <p>2) assists the EOD technician in identifying and countering the threat of CBRN; prepares the equipment and measuring instruments for CBRN hazard identification and countering in accordance with applicable laws;</p> <p>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.</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.2.14 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 of the scene; leads the team diving into the CBRN environment in accordance with applicable laws, using the equipment and tools for diving into the CBRN environment (the suit, breathing apparatus, etc.); shall, where appropriate, perform the tasks of a lower</p>	



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<p>level EOD technician;</p> <p>2) detects the 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 CBRN threats in accordance with applicable laws; shall, where appropriate, perform the tasks of a lower level EOD technician;</p> <p>3) leads the work of 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 in 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; keeps up to date with the tactics and equipment innovations related to the CBRN field and organizes relevant training; shall, where appropriate, perform the tasks of an EOD technician;</p> <p>2) analyzes the previous practice of detection and countering of CBRN threats 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 threats 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 trainings; 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

B.2.12 EOD Technician, level 5, transversal competency	ECT Level 5
<p><u>Performance indicators</u></p> <p>1) in compliance with applicable laws transports the explosives and ensures the undisturbed state of the explosive substances at the scene of event and/or destruction; assists the mine clearance instructor on using explosive substances for preventing an explosion, destroying munitions, on rescue work for preventing the spread of hazardous substances and on organization of a mine clearance exercises, examines the explosive before use; uses personal protective equipment; determines the feasibility of</p>	



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transporting the explosives, the number of transport units on a truck or trailer cars, the separation distance of cars in a motorcade, the speed of movement, the involvement of the police and ambulance services; organizes the storage of explosives at the scene of event and/or destruction and in a repository in accordance with applicable laws and ensures the safety and preservation of the explosives; prepares the special charges and explosives;

2) provides the victim(s) with life-saving first aid in accordance with the requirements of 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 of the victims to an appropriate medical institutions;

3) performs emergency driving, taking into account the current laws and the specific nature of the mine clearance works;

4) participates in the post-event analysis, where he or she expresses their emotions associated with the event, formulates and expresses their understanding of the event, formulates the principles of their activities and relates them to the event that happened, makes suggestions for changes in his or his team's future activities, makes suggestions for the future implementation of the lessons learned;

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");

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").

Knowledge:

1) Basics of management.

Assessment Method(s):

Transversal competencies are assessed in an integrated way in the course of the assessment of other competencies provided in the occupational standards.



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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	18-03092012-04/1k
2. Occupational qualification standard prepared by:	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

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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