

OCCUPATIONAL QUALIFICATION STANDARD

Construction Site Manager, EstQF Level 5

An occupational qualification standard is a document which describes the set of skills, knowledge and attitudes, i.e. competence requirements, needed to successfully accomplish duties. Occupational qualification standards are used for compiling curricula and awarding qualifications.

Occupational title	Level of Estonian Qualifications Framework (EstQF)
Construction Site Manager, EstQF Level 5	5

Possible specialisation and titles on occupational certificate	
Specialisation	Title on occupational qualification certificate
Performing general construction work	Construction Site Manager, EstQF Level 5 Performing general construction work
Performing finishing work	Construction Site Manager, EstQF Level 5 Performing finishing work
Construction of indoor climate control systems	Construction Site Manager, EstQF Level 5 Construction of indoor climate control systems
Construction of water supply and sewerage systems within buildings or belonging to them	Construction Site Manager, EstQF Level 5 Construction of water supply and sewerage systems within buildings or belonging to them

Part A DESCRIPTION OF WORK

A.1 Description of work
<p>A construction site manager is responsible for the technical and economic activities taking place and for occupational safety on the building site within the scope of their labour operations. They manage construction work and ensure that the work being performed is in accordance with project documentation and building codes. For a construction site manager, management skills are essential in addition to construction-related skills and knowledge.</p> <p>The occupational qualification of Construction Site Manager is specialisation-based. It is possible to specialise in one of the following four fields:</p> <ol style="list-style-type: none"> 1) General construction work 2) Performing finishing work 3) Construction of indoor climate control systems 4) Construction of water supply and sewerage systems within buildings or belonging to them <p>When specialising in general construction, finishing or construction of indoor climate control systems, it is possible to certify full specialisation or to choose between more specific fields (elective competences):</p> <ol style="list-style-type: none"> 1) General construction work <ul style="list-style-type: none"> - Construction of wooden structures - Construction of stone structures - Installation of prefabricated construction structures - Construction of concrete structures - Construction of flat roofs - Construction of pitched roofs - Whitesmith work 2) Construction finishing <ul style="list-style-type: none"> - Paintwork - Tiler work - Floor covering work

- Plastering work
- 3) Construction of indoor climate control systems
 - Construction of heating systems
 - Construction of cooling systems
 - Construction of ventilation systems

The occupational qualification of Construction Site Manager, EstQF Level 5 entitles the bearer, on a statutory basis, to act as a competent person in terms of the Building Code.

The bearer of this occupational qualification certificate may act independently and at their own risk within the limits described as follows:

I GENERAL CONSTRUCTION AND CONSTRUCTION FINISHING

Private houses and other buildings in consequence class CC1 according to the standard EVS-EN 1990:2002+NA:2002.

II CONSTRUCTION OF INDOOR CLIMATE CONTROL SYSTEMS

Private houses and other buildings in consequence class CC1 according to the standard EVS-EN 1990:2002+NA:2002.

III CONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEMS WITHIN BUILDINGS OR BELONGING TO THEM

Private houses and other buildings in consequence class CC1 according to the standard EVS-EN 1990:2002+NA:2002.

In the construction of more complex structures, Construction Site Manager, Level 5 only has the right to act under the responsibility of a subcontracted specialist of higher competence (at least Level 6 of the EQF) in the respective field.

A.2 Tasks

A.2.1 Compiling tenders

1. Examination of documentation presented by the client
2. Familiarisation with the site
3. Drawing up a schedule for construction work
4. Calculating the cost price of construction work
5. Drawing up a financial plan for construction work
6. Compiling and submitting tenders

A.2.2 Preparation and planning of construction work

1. Entering into a management contract
2. Defining the organisational chart of the project
3. Obtaining the permits required for construction

A.2.3 Resource management

1. Planning material requirements
2. Calculating workload and working hours
3. Planning the work of building mechanisms and means of transport
4. Comparing actual construction costs with the financial plan

A.2.4 Management and organisation of construction work

1. Demarcation of construction dimensions and allocation of bench marks
2. Direct management of construction work on site
3. Documenting of construction work according to requirements
4. Coordinating and conducting additional work and modifications

A.2.5 Organisation of safe work during construction

1. Ensuring accordance with the requirements of occupational health and safety
2. Ensuring the environmental safety and general maintenance of the building site
3. Taking control in emergencies (occupational accident, breakdowns, fires, degradation of structures, etc.)

A.2.6 Ensuring quality during construction

1. Ensuring that construction work is in compliance with quality requirements

2. Conducting inspections of work covered and elements of the building

A.2.7 Transfer of construction work

1. Transfer and acceptance of the work
2. Assembling the execution documentation for the building
3. Conducting the necessary user training for the managing agent of the structure
4. Conducting warranty period procedures

A.2.8. Energy-efficient construction

Specialised areas of work

Specialisation is according to the field of construction, in either general construction, finishing, construction of climate control systems or construction of water supply and sewerage systems within buildings or belonging to them. The mandatory areas of work and elective competences described in the occupational qualification standard are directly related to the specialisation.

Elective areas of work

A.2.9 Construction of wooden structures

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.10 Construction of stone structures

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.11 Installation of prefabricated construction structures

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.12 Construction of concrete structures

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.13 Performing paintwork

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.14 Performing tiler work

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.15 Performing floor covering work

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.16 Performing plastering work

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.17 Construction of heating systems

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.18 Construction of cooling systems

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.19 Construction of ventilation systems

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.20 Construction of water supply and sewerage systems within buildings or belonging to them

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.21 Construction of flat roofs

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.22 Construction of pitched roofs

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.2.23 Performing whitesmith work

1. Conducting work based on construction technology
2. Quality assurance of construction work
3. Following occupational and environmental safety requirements based on construction technology

A.3 Work environment and specific nature of work

The main work of a construction site manager is carried out on the building site. Working hours are flexible: the general rule is a five-day working week, but in some cases it is necessary to work on weekends as well. The work may be intense depending on construction technology needs, seasonality or the work schedule. Depending on the building site, the construction site manager may have to work at heights or in pits.

There are higher risks involved in working on site, which is why it is crucial for the construction site manager to follow environmental and occupational health and safety requirements.

A.4 Tools

A construction site manager uses tools and equipment according to their specialisation, office equipment (computers, communication devices, etc.) and the appropriate measuring and testing equipment for the initial verification of compliance with requirements.

A.5 Personal qualities required for work: abilities and characteristics

A construction site manager must be able to make decisions independently as well as lead a team and work in a team. High stress tolerance, the ability to perform under pressure, good communication skills and the ability to assert oneself are also necessary in the profession. Analytical skills, initiative and good oral and written skills of self-expression are also beneficial. The profession of construction site manager also requires a sense of duty and correctness.

A.6 Professional preparation
Those working as construction site managers either acquire vocational education in construction and practical work experience in a construction company or professional skills through practical work experience and in-service training. In addition, they have completed further training in operations management.
A.7 Most common occupational titles
Foreman, work superintendent, site engineer (within the framework of their field of specialisation)
A.8 Regulations governing profession
Building Code and its relevant implementing acts Other professional standards, guidelines and norms

Part B COMPETENCY REQUIREMENTS

B.1 Structure of occupation
The occupational qualification standard of Construction Site Manager, EstQF Level 5 consists of eight mandatory competences (B.2.1-B.2.8), 14 specialised elective competences (B.2.9-B.2.22) and five recurring competences (B.2.23-B.2.27). The occupational qualification of Construction Site Manager is specialisation-based. In order to obtain the qualification, at least one elective competence must be chosen in accordance with the specialisation. Competences are assessed according to the specialisation and elective competence(s). In addition, the applicant must certify all recurring competences.

B.2 Competences

MANDATORY COMPETENCES

B.2.1 Compiling tenders	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Examines the documentation submitted by the client, seeking clarification where necessary. 2. Familiarises themselves with the site on location. 3. Compiles a schedule for construction work based on their technological processes. 4. Calculates the cost price of construction, taking into account the cost of work that can be done without outside help. 5. Prepares a financial plan for construction work based on the estimated cost of construction, general and personalised cost calculations and time and payment schedules and taking into account the need for self-financing. 6. Draws up and submits a quote for construction work to the client, taking into account the terms and conditions of the contract and project documentation. <p>Knowledge:</p> <ol style="list-style-type: none"> 1) construction materials required for performing work and their qualities; 2) construction technologies required for performing work; 3) general terms and concepts of construction; 4) building norms, standards and guidelines specific to the field; 5) reading construction drawings; 6) legislation specific to the field; 7) construction surveying; 8) best practice in construction; 9) requirements of occupational and environmental safety in construction; 10) requirements for the documenting of work. 	
B.2.2 Preparation and planning of construction work	EstQF Level 5
Performance indicators:	

1. Negotiates with the client and enters into a management contract.
2. Assembles the labour force required for performing work. Distributes tasks.
3. Obtains the permits needed for fulfilling the construction contract from the appropriate institutions (digging permits, felling licences, permits for closing down streets, etc.)

Knowledge:

- 1) general terms and concepts of construction;
- 2) building norms, standards and guidelines specific to the field;
- 3) technological sequence of construction work;
- 4) reading construction drawings;
- 5) legislation specific to the field;
- 6) best practice in construction;
- 7) requirements of occupational and environmental safety in construction;
- 8) requirements for the documenting of work.

B.2.3 Resource management

EstQF Level 5

Performance indicators:

1. Plans material requirements and orders the required materials, taking into account the construction schedule and delivery time. Controls the use of materials during construction. Certifies that materials and devices are in compliance with requirements throughout construction.
2. Plans the workload of construction and assembles the necessary labour force accordingly, taking into account the work schedule. Assigns the necessary orders and tasks. Ensures the optimal implementation of labour.
3. Plans the need for machinery and means of transport needed for construction work and orders them, taking into account the work schedule.
4. During the construction period, compares and analyses whether actual construction costs are in accordance with the financial plan.

Knowledge:

- 1) building norms, standards and guidelines specific to the field;
- 2) technological sequence of construction work;
- 3) best practice in construction;
- 4) requirements of occupational and environmental safety in construction;
- 5) requirements for the documenting of work;
- 6) conformity requirements of construction materials and equipment.

B.2.4 Management and organisation of construction work

EstQF Level 5

Performance indicators:

1. Determines and lays down all dimensions and locations needed for construction (except for geodetic work).
2. Supervises the activity of workers and manages construction work on site, taking into account the technological process.
3. Ensures that construction work is being documented in accordance with valid legislation.
4. Performs the assessment, coordination, management and documentation of necessary additional work and modifications.

Knowledge:

- 1) general terms and concepts of construction;
- 2) building norms, standards and guidelines specific to the field;
- 3) technological sequence of construction work;
- 4) reading construction drawings;
- 5) legislation specific to the field;
- 6) construction surveying;
- 7) best practice in construction;
- 8) requirements of occupational and environmental safety in construction;
- 9) requirements for the documenting of work.

B.2.5 Conducting safe work during construction

EstQF Level 5

Performance indicators:

1. Ensures that occupational health and safety requirements are being met on site, taking into account valid legislation.

<p>2. Ensures the maintenance of the work area. Ensures environmental safety in the work area, taking into account valid legislation.</p> <p>3. Takes control of emergencies occurring in the work area, responding according to the situation.</p>	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) construction materials required for performing work and their qualities; 2) construction technologies required for performing work; 3) general terms and concepts of construction; 4) building norms, standards and guidelines specific to the field; 5) reading construction drawings; 6) legislation specific to the field; 7) best practice in construction; 8) requirements of occupational and environmental safety in construction. 	
B.2.6 Ensuring quality during construction	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Verifies the quality of construction work, taking into account the requirements set out in the contract. 2. Organises an inspection of work to be covered (getting competent experts involved, where necessary) and documents this in accordance with valid legislation. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) principal construction materials required for performing work and their qualities; 2) principal construction technologies required for performing work; 3) building norms, standards and guidelines specific to the field; 4) reading construction drawings; 5) legislation specific to the field; 6) best practice in construction. 	
B.2.7 Transfer of construction work	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Organises activities related to the transfer and acceptance of the work. 2. Ensures the completion of the documentation required for transfer and acceptance activities. Assembles the execution documentation set out in the contract (construction logs, as-built drawings, acts of work to be covered, surveying protocols, pressurisation test reports, etc.). 3. Where necessary, conducts the necessary user training for the managing agent of the structure. Passes on user manuals and maintenance files. 4. Carries out the periodic inspections set out in the contract, formalises acts and plans activities for the warranty period. In the event that construction errors emerge, arranges for their assessment and elimination. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) building norms, standards and guidelines specific to the field; 2) reading construction drawings; 3) legislation specific to the field; 4) best practice in construction; 5) requirements for the documenting of work. 	
B.2.8 Energy-efficient construction	EstQF Level 4
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Before starting work, prepares a work space in accordance with requirements, bearing in mind energy efficiency principles. 2. Performs all parts of work in their occupation, applying basic knowledge of energy efficiency in doing so. Considers energy costs in performing their duties and is targeted and economical in their use of the energy sources needed in their work (electricity, water, lighting, fan heaters, etc.). 3. Chooses appropriate materials (building materials, fasteners and other tools) within the limits of authority delegated to them, bearing in mind energy efficiency requirements and the specific nature of their speciality. 4. Chooses the correct technology and appropriate methods, bearing in mind energy efficiency requirements and the specific nature of their speciality. Whenever possible, applies systems of modular sizes (measurements of materials, spacing of structure, etc.) in order to ensure quality and cost effectiveness when performing work within their occupation. 	

5. Performs work needed to improve energy efficiency within their occupation.
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) general concepts of energy efficiency, their meanings and factors affecting energy efficiency; 2) main energy sources in Estonia (including sources of renewable energy); 3) quality requirements of construction and their effects on energy efficiency; 4) factors affecting the thermal conductivity of the building envelope and energy consumption of a building (including qualities of construction materials and products); 5) various technical systems and the effect their choice has on the energy efficiency of a building; 6) options for improving the energy efficiency of buildings; 7) the impact of working culture on energy costs in construction; 8) the impact of weather conditions on building envelopes; 9) the impact of behaviour on energy costs in the use of buildings.
Kompetents on välja töötatud Buildest projekti raames.

OPTIONAL COMPETENCES

In order to obtain the qualification, at least one elective competence (B.2.9 – B.2.23) must be chosen in accordance with the specialisation.

B.2.9 Construction of wooden structures	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of wooden structures, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) materials used in wooden structures (qualities of wood, wood classification, etc.); 2) wood joints; 3) types of wooden structures (industrial structures etc.) and their characteristics; 4) technologies used in constructing wooden structures. 	
B.2.10 Construction of stone structures	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of stone structures, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) materials used in stone structures (natural stones, artificial stones, etc.); 2) types of stone structures and their characteristics; 3) technologies used in constructing stone structures. 	
B.2.11 Installation of prefabricated construction structures	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the installation of prefabricated construction structures, taking into account the order of technological processes and project documentation. 2. Ensures the high quality of construction related to the installation of prefabricated construction structures, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 	

3. Ensures compliance with occupational and environmental safety requirements in construction related to the installation of prefabricated construction structures based on construction technologies.	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) various attachment ties and installation technologies; 2) principles of installing temporary holds and footing (e.g. sequence of work when mounting); 3) pretreating and cleaning of metal surfaces; 4) protective measures against corrosion and their implementation; 5) the impact of weather conditions on steel and metal structures; 6) quality requirements of structural elements. 	
B.2.12 Construction of concrete structures	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of concrete structures, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) materials used in concrete structures (prefabricated concrete elements or monolithic concrete), reinforcement and partition walls; 2) types of concrete structures and their characteristics; 3) technologies used in constructing concrete structures, technological devices (formworks etc.). 	
B.2.13 Performing paintwork	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Leads paintwork, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of paintwork, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in paintwork. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) materials (etc.) and tools used in paintwork; 2) paintwork technologies; 3) quality requirements of substrates to be finished and finished surfaces; 4) the impact of environmental conditions on finished surfaces; 5) the requirements for carrying out finishing work in various environmental and weather conditions; 6) potential causes of errors and methods of preventing and repairing them. 	
B.2.14 Performing tiler work	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Leads tiler work, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of tiler work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in tiler work. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) materials (etc.) and tools used in tiler work; 2) finishing work technologies; 3) quality requirements of substrates to be finished and finished surfaces; 4) the impact of environmental conditions on tiled surfaces; 5) the requirements for carrying out tiler work in various environmental and weather conditions; 6) potential causes of errors and methods of preventing and repairing them. 	
B.2.15 Performing floor covering work	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Leads floor covering work, taking into account the technological sequence of processes and project documentation. 	

<p>2. Ensures the high quality of floor covering work, taking into account best practice in construction and the requirements set out in the project documentation and building codes.</p> <p>3. Ensures compliance with occupational and environmental safety requirements in floor covering work.</p>	
<p>Knowledge:</p> <p>1) various materials (PVC coverings and sheet materials, parquet, textiles, etc.) and tools used in floor covering;</p> <p>2) technologies used for installing different materials;</p> <p>3) quality requirements of substrates to be covered;</p> <p>4) potential causes of errors and methods of preventing and repairing them.</p>	
B.2.16 Performing plastering work	EstQF Level 5
<p>Performance indicators:</p> <p>1. Leads plastering work, taking into account the technological sequence of processes and project documentation.</p> <p>2. Ensures the high quality of plastering work, taking into account best practice in construction and the requirements set out in the project documentation and building codes.</p> <p>3. Ensures compliance with occupational and environmental safety requirements in plastering work.</p>	
<p>Knowledge:</p> <p>1) materials (etc.) and tools used in plastering work;</p> <p>2) plastering technologies;</p> <p>3) quality requirements of substrates to be plastered and plastered surfaces;</p> <p>4) the impact of environmental conditions on plastered surfaces;</p> <p>5) the requirements for carrying out plastering work in various environmental and weather conditions;</p> <p>6) potential causes of errors and methods of preventing and repairing them.</p>	
B.2.17 Construction of heating systems	EstQF Level 5
<p>Performance indicators:</p> <p>1. Manages operations related to the construction of heating systems, taking into account the technological sequence of processes and project documentation.</p> <p>2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes.</p> <p>Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies.</p>	
<p>Knowledge:</p> <p>1) various heating system solutions;</p> <p>2) materials used in the construction of heating systems (metal, plastic and other pipes, insulation materials, etc.);</p> <p>3) devices used in the construction of heating systems (compressors, tanks, etc.);</p> <p>construction technologies used in the construction of heating systems.</p>	
B.2.18 Construction of cooling systems	EstQF Level 5
<p>Performance indicators:</p> <p>1. Manages operations related to the construction of cooling systems, taking into account the technological sequence of processes and project documentation.</p> <p>2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes.</p> <p>3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies.</p>	
<p>Knowledge:</p> <p>1) various cooling system solutions;</p> <p>2) materials used in the construction of cooling systems (metal, plastic and other pipes, insulation materials, etc.);</p> <p>3) devices used in the construction of cooling systems (compressors, pumps, tanks, heat exchangers, etc.);</p> <p>4) construction technologies used in the construction of cooling systems.</p>	
B.2.19 Construction of ventilation systems	EstQF Level 5
<p>Performance indicators:</p> <p>1. Manages operations related to the construction of ventilation systems, taking into account the technological sequence of processes and project documentation.</p>	

<p>2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes.</p> <p>3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies.</p>	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) various ventilation system solutions; 2) materials used in the construction of ventilation systems (metal, plastic and other pipes, insulation materials, etc.); 3) devices used in the construction of ventilation systems (fans, filters, heat recovery devices, etc.); 4) construction technologies used in the construction of ventilation systems; 5) various cooling system solutions. 	
<p>B.2.20 Construction of water supply and sewerage systems within buildings or belonging to them</p>	<p>EstQF Level 5</p>
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of water supply and sewerage systems within buildings or belonging to them, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) various water supply and sewerage system solutions; 2) materials used in the construction of water supply and sewerage systems (metal, plastic and other pipes, insulation materials, etc.); 3) devices used in the construction of water supply and sewerage systems (pumps, tanks, etc.); 4) construction technologies used in the construction of water supply and sewerage systems. 	
<p>B.2.21 Construction of flat roofs</p>	<p>EstQF Level 5</p>
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of flat roofs, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) Cladding materials of flat roofs (bitumen and plastic roll materials, molten plastic, etc.); 2) Materials for thermal insulation and vapour barriers, construction materials for sloped surfaces; 3) Installation technologies for flat roof materials; 4) General knowledge of flat roof substructures (concrete, metal and wood). 	
<p>B.2.22 Construction of pitched roofs</p>	<p>EstQF Level 5</p>
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of pitched roofs, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) Cladding materials of pitched roofs (stone, corrugated iron, corrugated sheet, (honeycomb) bitumen, etc.); 2) Materials for thermal insulation, vapour barriers and wind breaks; 3) Construction principles of wooden structures (rafters, battens, etc.); 4) Installation technologies for pitched roof materials. 	

B.2.23 Performing whitesmith work	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Manages operations related to the construction of pitched roofs, taking into account the technological sequence of processes and project documentation. 2. Ensures the high quality of construction work, taking into account best practice in construction and the requirements set out in the project documentation and building codes. 3. Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies. 	
<p>Knowledge:</p> <ol style="list-style-type: none"> 1) Qualities of various sheet metal materials (elasticity measures etc.); 2) Knowledge related to cutting, bending and roll compaction of sheet metal; 3) Materials for thermal insulation, vapour barriers and wind breaks; 4) Construction principles of wooden structures (rafters, battens, etc.). 	

RECURRING COMPETENCES

B.2.24 Following the principles of professional ethics	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Is guided in their activities by best practice in construction. 2. Knows and accepts the best practice that forms the basis of the behaviour of partners. 3. Is result-oriented in their activities. 4. Is responsible and exemplifies skills of leadership and team work. 	
B.2.25 Participation in team work	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Is capable of working in a multidisciplinary and international team and of adjusting their communication style to different situations and people. 2. Is capable of showing initiative and performs their duties with confidence. 3. Understands their role in the team, is capable of operatively assessing situations and conflicts as they arise and of responding adequately, taking an understanding approach to criticism. 	
B.2.26 Self-development and participation in lifelong learning	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Uses their field-specific knowledge to handle work tasks and develops their competence through continuous professional development, making use of the development and training opportunities offered to them. 2. Is aware of technological developments in the construction sector and society as a whole and is committed to innovative and creative self-improvement. 	
B.2.27 Language skills	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Words ideas related to the performance of their duties in Estonian that is terminologically correct (required level: B2). 2. Communicates professionally in one foreign language (recommended level: A2). <p>See Annex 1 Language skills level descriptions.</p>	
B.2.28 Computer Skills	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> 1. Uses a computer daily for information processing, communication, safety and problem-solving at the Independent user level and for content creation at the Basic user level (see Annex 2 – Scale of self-assessment in digital competence). 2. Uses in their work appropriate and modern information and communications technologies and opportunities and software solutions specific to their occupation. 	

Part C
GENERAL INFORMATION AND ANNEXES

C.1 Information concerning compilation and certification of occupational qualification standard and reference to classification of occupations	
1. ID of occupational qualification standard in register of occupational qualifications	22-28052019-02/3k
2. Occupational qualification standard compiled by:	Indrek Peterson, Eesti Ehitusettevõtjate Liit Meelis Kann, AS Nordecon Enno Pöder, Merko Ehitus Eesti AS Ago Rehand, OÜ Viljandi Õhumeister Margus Keerutaja, AS Sovek Tõnu Armulik, Tallinna Ehituskool
3. Occupational qualification standard approved by:	Architecture, Geomatics, Construction and Real Estate
4. No. of decision of Sectoral Council	23
5. Date of decision of Sectoral Council	28.05.2019
6. Occupational qualification standard valid until	15.02.2021
7. Occupational qualification standard version no.	3
8. Reference to International Standard Classification of Occupations (ISCO 08)	3123 Construction Supervisors
9. Reference to European Qualifications Framework (EQF)	5
C.2 Occupational title in foreign language	
English:	Construction Site Manager, EstQF Level 5
C.3 Annexes	
Lisa 1 Language skills level descriptions	
Lisa 2 Scale of self-assessment in digital competence	