

OCCUPATIONAL QUALIFICATION STANDARD

Construction Site Manager, level 5

Kutsestandard on dokument, milles kirjeldatakse tööd ning töö edukaks tegemiseks vajalike oskuste, teadmiste ja hoiakute kogumit ehk kompetentsusnõudeid. Kutsestandardeid kasutatakse õppekavade koostamiseks ja kutse andmiseks.

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

Possible specialisation and titles on occupational certificate	
Specialisation	Title on occupational qualification certificate
Üldehituslik ehitamine	Construction Site Manager, level 5 Üldehituslik ehitamine
Sisekliima tagamise süsteemide ehitamine	Construction Site Manager, level 5 Sisekliima tagamise süsteemide ehitamine
Hoonesisese või selle juurde kuuluva veevarustuse ja kanalisatsioonisüsteemi ehitamine	Construction Site Manager, level 5 Hoonesisese või selle juurde kuuluva veevarustuse ja kanalisatsioonisüsteemi ehitamine
Ehitusviimistlustööde tegemine	Construction Site Manager, level 5 Ehitusviimistlustööde tegemine

Part A DESCRIPTION OF WORK

A.1 Description of work
Tööjuht on oma töövõtu ulatuses vastutav tehnilise ja majandusliku tegevuse ning tööohutuse eest objektil. Ta juhib ehitustöid ja tagab tehtud tööde vastavuse projektdokumentatsioonile ning ehitusnormidele. Tööjuhina tegutsedes on lisaks ehituse kutsealastele teadmistele ja oskustele oluline juhtimisoskus. Tööjuhi kutse on spetsialiseerumispõhine ja võimalik on spetsialiseeruvad ühele neljast tegevusalast: 1) Üldehitustööd 2) Ehitusviimistlustööde tegemine 3) Sisekliima tagamise süsteemi ehitamine 4) Hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemide ehitamine Üldehitustööde tegemisele, ehitusviimistlustööde tegemisele ja sisekliima tagamise süsteemide ehitamisele spetsialiseerudes on vajalik valida vähemalt üks järgmistest kitsamatest valdkondadest (valikkompetentsidest): 1) Üldehitustööd - Puitkonstruktsioonide ehitamine - Kivikonstruktsioonide ehitamine - Monteeritavate ehituskonstruktsioonide ehitamine - Betoonkonstruktsioonide ehitamine 2) Ehitusviimistlustööd - Maalritööde tegemine - Plaatimistööde tegemine - Põrandakatmistööde tegemine - Krohvimistööde tegemine 3) Sisekliima tagamise süsteemide ehitamine - Küttesüsteemide ehitamine - Jahutussüsteemide ehitamine - Ventilatsioonisüsteemide ehitamine

Tööjuht, tase 5 kutsetunnistus annab selle omanikule seadusest tulenevatel alustel õiguse tegutseda otsetöövõtu korral pädeva isikuna ehitusseadustiku mõistes.

Selle kutsetunnistuse omanik võib iseseisvalt ja omal vastutusel tegutseda ainult järgnevalt kirjeldatud piirangute ulatuses:

I ÜLDEHITUS- JA EHITUSVIIMISTLUSTÖÖD

Eramute ja EVS-EN 1990:2002+NA:2002 standardi CC1 tagajärgede klassi liigituvad muud hooned

II SISEKLIIMA TAGAMISE SÜSTEEMIDE EHITAMINE

Eramute ja EVS-EN 1990:2002+NA:2002 standardi CC1 tagajärgede klassi liigituvad muud hooned

III HOONESISESE JA SELLE JUURDE KUULUVA VEE- JA KANALISATSIOONISÜSTEEMIDE EHITAMINE:

Eramute ja EVS-EN 1990:2002+NA:2002 standardi CC1 tagajärgede klassi liigituvad muud hooned

Keerukamate objektide ehitamisel on 5. taseme tööjuhil õigus tegutseda ainult vastaval tegevusalal alltöövõtu korras kõrgemat pädevust (vähemalt EKR 6. taseme kutset) omava spetsialisti vastutusel.

A.2 Tasks

A.2.1 Ehituspakkumuse koostamine

1. Tellija esitatud dokumentatsiooni läbitöötamine
2. Tutvumine objektiga
3. Ehitustööde ajagraafiku koostamine
4. Ehitustööde omahinna arvutamine
5. Ehitustööde finantsplaani koostamine
6. Pakkumuse koostamine ja esitamine

A.2.2 Ehitamise ettevalmistamine ja kavandamine

1. Ehitustöövõtulepingu sõlmimine
2. Projekti organisatsiooniskeemi määratlemine
3. Ehituseks vajalike lubade hankimine

A.2.3 Ressursside juhtimine

1. Materjalikulu planeerimine
2. Töömahu ja tööaja arvestamine
3. Ehitusmehhanismide ja transpordivahendite töö planeerimine
4. Tegelike ehituskulude võrdlemine finantsplaaniga

A.2.4 Ehitustööde juhtimine ja korraldamine

1. Ehituslike mõõtmete mähmähkimine ja kõrgusmärkide ülekandmine
2. Ehitustööde vahetu juhtimine objektil
3. Ehitustööde nõuetekohane dokumenteerimine
4. Lisa- ja muudatustööde kooskõlastamine ja korraldamine

A.2.5 Ohutu töö korraldamine ehitustöödel

1. Töötervishoiu- ja tööohutusnõuete täitmise tagamine
2. Ehitusplatsi korrashoiu ja keskkonnaohutuse tagamine
3. Tegutsemine hädaolukorras (tööõnnetus, avari, tulekahju, konstruktsiooni lagunemine vm)

A.2.6 Kvaliteedi tagamine ehitustöödel

1. Ehitustööde kvaliteedinõuetele vastavuse kontrollimine
2. Kaetavate tööde ja ehitise osade ülevaatuse korraldamine

A.2.7 Ehitustööde üleandmine

1. Tehtud tööde üleandmine-vastuvõtmine
2. Ehitise täitedokumentatsiooni komplekteerimine
3. Ehitise haldajale vajalike kasutuskoolituste korraldamine
4. Garantiiperioodi toimingute korraldamine

A.2.8 Energiatõhus ehitamine

Specialised areas of work

Spetsialiseerumine toimub vastavalt ehitustegevuse valdkonnale kas üldehitustöödele, ehitusviimistlustöödele, sisekliima tagamise süsteemi ehitamisele või hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemi ehitamisele.

Kutsestandardis kirjeldatud kohustuslikud tööosad ja valikkompetentsid on otseselt seotud spetsialiseerumistega.

Elective areas of work

A.2.9 Puitkonstruktsioonide ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.10 Kivikonstruktsioonide ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.11 Monteeritavate ehituskonstruktsioonide paigaldamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.12 Betoonkonstruktsioonide ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.13 Maalritööde tegemine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.14 Plaatimistööde tegemine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.15 Põrandakatmistööde tegemine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.16 Krohvimistööde tegemine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.17 Küttesüsteemide ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.18 Jahutussüsteemide ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.19 Ventilatsioonisüsteemide ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.2.20 Hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemi ehitamine

1. Tööde juhtimine ehitustehnoloogiast lähtuvalt
2. Ehitustööde kvaliteedi tagamine
3. Tööohutuse ja keskkonnaohutuse nõuete täitmine ehitustehnoloogiast lähtuvalt

A.3 Work environment and specific nature of work

Tööjuhi põhitööd tehakse ehitusobjektidel. Tööaeg on paindlik – üldjuhul töötatakse viiel päeval nädalas, kuid vajadusel tuleb töötada ka nädalavahetusel. Töö rütm võib sõltuvalt ehitustehnoloogilistest vajadusest, hooajalisusest või tööde ajagraafikust olla intensiivne, töötada tuleb sõltuvalt ehitusobjektist suurtel kõrgustel või süvendis. Töökeskkond ehitusobjektidel on seotud kõrgendatud riskidega, mistõttu tööjuht peab järgima keskkonna-, tööohutus- ja tervishoiu nõudeid.

A.4 Tools

Tööjuht kasutab oma töös vastavalt spetsialiseerumisele tööriistu- ja -vahendeid, kontoritehnikat (arvutid, kommunikatsiooniseadmed jne) ja nõuetekohasuse esmaseks tõendamiseks vastavat kontroll- ja mõõtetehnikat.

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

Tööjuht peab suutma langetada otsuseid iseseisvalt, juhtima meeskonda ja töötama meeskonnas. Tema töös on vajalikud kõrge stressi- ja pingetaluvus, hea suhtlemisoskus ja võime ennast kehtestada. Kasuks tulevad ka analüüsi- ja algatusvõime ning hea suuline ja kirjalik eneseväljendusoskus. Tööjuhi kutse eeldab kohusetundlikkust ja korrektsust.

A.6 Professional preparation

Tööjuhina töötavad inimesed, kellel on kas ehitusalane kutseharidus ja praktiline töökogemus ehitusettevõttes või praktilise töökogemuse ja erialaste täiendkoolitustega omandatud kutsealased oskused. Lisaks on tööjuhina töötavad isikud läbinud täiendõppe tööjuhtimises.

A.7 Most common occupational titles

Meister, töödejuhataja, projektijuht (spetsialiseerumisvaldkonna raames)

A.8 Regulations governing profession

Ehitusseadustik ja selle asjakohased rakendusaktid
Muud erialased standardid, juhendmaterjalid ja normid

Part B COMPETENCY REQUIREMENTS

B.1 Structure of occupation

Tööjuht, tase 5 kutsestandard koosneb kaheksast kohustuslikust (B.2.1-B.2.8), viieteistkümnest spetsialiseerumisega seotud valitavast (B.2.9-B.2.20) ja viiest kutset läbivast (B.2.21-B.2.24) kompetentsist. Tööjuhi kutse on spetsialiseerumispõhine. Kutse saamiseks tuleb spetsialiseerumisele juurde valida vähemalt üks spetsialiseerumisele kohane valitav kompetents. Kompetentside hindamine toimub vastavalt spetsialiseerumisele ja valikkompetentsi(de)le. Lisaks tuleb taotlejal tõendada kõik kutset läbivad kompetentsid.

B.2 Competences

MANDATORY COMPETENCES

B.2.1 Compiling tenders	EstQF Level 5
Performance indicators: 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.	
Knowledge: 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.
2. Ensures the maintenance of the work area. Ensures environmental safety in the work area, taking into account valid legislation.
3. Takes control of emergencies occurring in the work area, responding according to the situation.

Knowledge:

- 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

Performance indicators:

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.

Knowledge:

- 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

Performance indicators:

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.

Knowledge:

- 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

Performance indicators:

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.

Knowledge:

- 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

Kutse saamiseks tuleb spetsialiseerumisele juurde valida vähemalt üks spetsialiseerumisele kohane valitav kompetents (B.2.9 – B.2.20).

B.2.9 Construction of wooden structures

EstQF Level 5

Performance indicators:

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.	
Knowledge: 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
Performance indicators: 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.	
Knowledge: 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
Performance indicators: 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.	
Knowledge: 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
Performance indicators: 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.	
Knowledge: 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
Performance indicators: 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.	
Knowledge: 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
Performance indicators: 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.	
Knowledge: 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
Performance indicators: 1. Leads floor covering work, taking into account the technological sequence of processes and project documentation. 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. 3. Ensures compliance with occupational and environmental safety requirements in floor covering work.	
Knowledge: 1) various materials (PVC coverings and sheet materials, parquet, textiles, etc.) and tools used in floor covering; 2) technologies used for installing different materials; 3) quality requirements of substrates to be covered; 4) potential causes of errors and methods of preventing and repairing them.	
B.2.16 Performing plastering work	EstQF Level 5
Performance indicators: 1. Leads plastering work, taking into account the technological sequence of processes and project documentation. 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. 3. Ensures compliance with occupational and environmental safety requirements in plastering work.	
Knowledge: 1) materials (etc.) and tools used in plastering work; 2) plastering technologies; 3) quality requirements of substrates to be plastered and plastered surfaces; 4) the impact of environmental conditions on plastered surfaces; 5) the requirements for carrying out plastering work in various environmental and weather conditions; 6) potential causes of errors and methods of preventing and repairing them.	
B.2.17 Construction of heating systems	EstQF Level 5
Performance indicators: 1. Manages operations related to the construction of heating systems, 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.
Ensures compliance with occupational and environmental safety requirements in construction based on construction technologies.

Knowledge:

- 1) various heating system solutions;
 - 2) materials used in the construction of heating systems (metal, plastic and other pipes, insulation materials, etc.);
 - 3) devices used in the construction of heating systems (compressors, tanks, etc.);
- construction technologies used in the construction of heating systems.

B.2.18 Construction of cooling systems

EstQF Level 5

Performance indicators:

1. Manages operations related to the construction of cooling systems, 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.

Knowledge:

- 1) various cooling system solutions;
- 2) materials used in the construction of cooling systems (metal, plastic and other pipes, insulation materials, etc.);
- 3) devices used in the construction of cooling systems (compressors, pumps, tanks, heat exchangers, etc.);
- 4) construction technologies used in the construction of cooling systems.

B.2.19 Construction of ventilation systems

EstQF Level 5

Performance indicators:

1. Manages operations related to the construction of ventilation systems, 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.

Knowledge:

- 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.

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

EstQF Level 5

Performance indicators:

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.

Knowledge:

- 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.

RECURRING COMPETENCES

B.2.21 Following the principles of professional ethics	EstQF Level 5
Performance indicators: 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.2.22 Participation in team work	EstQF Level 5
Performance indicators: 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.2.23 Self-development and participation in lifelong learning	EstQF Level 5
Performance indicators: 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.2.24 Language skills	EstQF Level 5
Performance indicators: 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). See Annex 1 Language skills level descriptions.	
B.2.25 Computer Skills	EstQF Level 5
Performance indicators: 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	22-06052019-5.2/2k
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	20

5. Date of decision of Sectoral Council	06.05.2019
6. Occupational qualification standard valid until	27.05.2019
7. Occupational qualification standard version no.	2
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, level 5
C.3 Annexes	
Lisa 1 Keelte oskustasemete kirjeldused	
Lisa 2 Digipädevuste enesehindamise skaala	