

OCCUPATIONAL QUALIFICATION STANDARD

Construction Site Manager, EstQF Level 5

Kutsestandard on dokument, milles kirjeldatakse tööd ning töö edukaks tegemiseks kompetentsusnõudeid. Kutsestandardeid kasutatakse õppekavade koostamiseks ja kutse andmiseks.

Ehituse tööjuht, tase 5 kutsestandard on täienduskoolituse õppekava koostamise ja töömaailma kutse andmise aluseks.

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
Eriehitustööde tegemine	Construction Site Manager, EstQF Level 5 Eriehitustööde tegemine

Part A DESCRIPTION OF WORK

A.1 Description of work Ehituse 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. Ehituse tööjuhina tegutsedes on lisaks ehituse kutsealastele teadmiste ja oskuste oluline juhtimisoskus. Ehituse tööjuhi kutse on spetsialiseerumispõhine ja võimalik on spetsialiseeruda ühele järgmistest tegevusaladest: 1) üldehitustööde tegemine; 2) sisekliima tagamise süsteemi ehitamine; 3) hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemide ehitamine; 4) ehitusviimistlustööde tegemine; 5) eriehitustööde tegemine. Üldehitustööde tegemisele, ehitusviimistlustööde tegemisele, sisekliima tagamise süsteemi ehitamisele ja eriehitustööde tegemisele spetsialiseerudes on võimalik tõendada tervikspetsialiseerumine või teha valik ka loetletud kitsamate valdkondade (valitavate kompetentside) vahel: 1. Üldehitustööde tegemine - Puitkonstruktsioonide ehitamine - Kivikonstruktsioonide ehitamine - Monteeritavate ehituskonstruktsioonide paigaldamine - Betoonkonstruktsioonide ehitamine 2. Sisekliima tagamise süsteemi ehitamine
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- Küttesüsteemide ehitamine
- Jahutussüsteemide ehitamine
- Ventilatsioonisüsteemide ehitamine

3. Ehitusviimistlustööde tegemine

- Maalritööde tegemine
- Plaatimistööde tegemine
- Põrandakatmistööde tegemine
- Krohvimistööde tegemine

4. Eriehitustööde tegemine

- Kaldkatuste ehitamine
- Lamekatuste ehitamine
- Ehitusplekksepatööde tegemine

Ehituse tööjuht, tase 5 spetsialiseerumised võib jagada kaheks:

- 1) spetsialiseerumised, millel tegutsemiseks on seaduse kohaselt kutsekvalifikatsioon kohustuslik;
- 2) spetsialiseerumised, millel tegutsemiseks seaduse kohaselt kutsekvalifikatsioon kohustuslik ei ole.

Ehitusseadustiku kohaselt peab pädeva isiku kvalifikatsioon olema tõendatud kutsega, kui tegemist on ehitusloa-kohustusliku ehitise ehitamisega. Ehitusloa kohustus kaasneb üldjuhul järgmiste spetsialiseerumiste korral:

I ÜLDEHITUSTÖÖDE TEGEMINE

II SISEKLIIMA TAGAMISE SÜSTEEMIDE EHITAMINE

III HOONESISESE JA SELLE JUURDE KUULUVA VEE- JA KANALISATSIOONISÜSTEEMIDE EHITAMINE

Nimetatud tegevusaladel võib kutsetunnistuse omanik iseseisvalt ja omal vastutusel tegutseda (st kutsetunnistust omav isik võib tegutseda otsetöövõtu korras pädeva isikuna ehitusseadustiku § 24 tähenduses) ainult järgnevalt kirjeldatud piirangute ulatuses:

- 1) Ehitise kasutamise otstarbe (loetelu majandus- ja taristuministri 02.06.2015 määrusest nr 51) järgi koodiga 11100 (ühe korteriga elamud), 11210 (kahe korteriga elamu) ja 11221 (ridaelamu) ja
- 2) 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.

Seaduse kohaselt ei ole kutsekvalifikatsioon nõutav tegutsemiseks järgmistel spetsialiseerumiste korral (kutsekvalifikatsioonid on vabatahtlikud):

IV EHITUSVIIMISTLUSTÖÖDE TEGEMINE

V ERIEHITUSTÖÖDE TEGEMINE

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

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

Ehituse 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. Ehituse tööjuhi kutse eeldab kohusetundlikkust ja korrektsust.

A.2 Tasks

- A.2.1 Ehituspakkumuse koostamine
- A.2.2 Ehitamise ettevalmistamine ja kavandamine
- A.2.3 Ressursside juhtimine
- A.2.4 Ehitustööde juhtimine ja korraldamine
- A.2.5 Ohutu töö korraldamine ehitustöödel

A.2.6 Kvaliteedi tagamine ehitustöödel A.2.7 Ehitustööde üleandmine A.2.8 Energiatõhus ehitamine
Elective areas of work
Spetsialiseerumisega üldehitustööde tegemine seotud valitavad tööosad A.2.9 Puitkonstruktsioonide ehitamine A.2.10 Kivikonstruktsioonide ehitamine A.2.11 Monteeritavate ehituskonstruktsioonide paigaldamine A.2.12 Betoonstruktsioonide ehitamine Spetsialiseerumisega ehitusviimistlustööde tegemine seotud valitavad tööosad A.2.13 Maalritööde tegemine A.2.14 Plaatimistööde tegemine A.2.15 Põrandakatmistööde tegemine A.2.16 Krohvimistööde tegemine Spetsialiseerumisega sisekliima tagamise süsteemi ehitamine seotud valitavad tööosad A.2.17 Küttesüsteemide ehitamine A.2.18 Jahutussüsteemide ehitamine A.2.19 Ventilatsioonisüsteemide ehitamine Spetsialiseerumisega hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemi ehitamine seotud valitav tööosa A.2.20 Hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemi ehitamine Spetsialiseerumisega eriehitustööde tegemine seotud valitavad tööosad A.2.21 Lamekatuste ehitamine A.2.22 Kaldkatuste ehitamine A.2.23 Ehitusplekksepatööde tegemine
A.3 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.4 Most common occupational titles
Meister, töödejuhataja, projektijuht (spetsialiseerumisvaldkonna raames)
A.5 Regulations governing profession
Ehituse tööjuht, tase 5 spetsialiseerumised võib jagada kaheks: 1) spetsialiseerumised, millel tegutsemiseks on seaduse kohaselt kutsekvalifikatsioon kohustuslik; 2) spetsialiseerumised, millel tegutsemiseks seaduse kohaselt kutsekvalifikatsioon kohustuslik ei ole. Ehitusseadustiku kohaselt peab pädeva isiku kvalifikatsioon olema tõendatud kutsega, kui tegemist on ehitusloa-kohustusliku ehitise ehitamisega. Ehitusloa kohustus kaasneb üldjuhul järgmiste spetsialiseerumiste korral: I ÜLDEHITUSTÖÖDE TEGEMINE; II SISEKLIIMA TAGAMISE SÜSTEEMIDE EHITAMINE; III HOONESISESE JA SELLE JUURDE KUULUVA VEE- JA KANALISATSIOONISÜSTEEMIDE EHITAMINE. Seaduse kohaselt ei ole kutsekvalifikatsioon nõutav tegutsemiseks järgmistel tegevusaladel (kutsekvalifikatsioonid on vabatahtlikud): IV EHITUSVIIMISTLUSTÖÖDE TEGEMINE; V ERIEHITUSTÖÖDE TEGEMINE.
A.6 Relevant skills for the future
Ehitusvaldkonna juhtide ja spetsialistide töös muutuvad üha olulisemaks järgmised oskused ja/või isikuomadused: 1. energiasäästlikkuse põhimõtete tundmine ja energiakulukuse ohje ehitusprotsesside juhtimisel;

2. ehitusmaterjalide taaskasutamise põhimõtete tundmine ja rakendamine ehitusprotsessides;
3. projekti juhtimiseks vajalike kaasaegsete (digitaalsete) töövahendite valdamine ja ehitustööde juhtimine digitaalkeskonnas (BIM);
4. koostöö oskus kõikide osapoolte vahel kogu ehitise elukaare vältel alates ehitise kavandamisest ja projekteerimisest kuni hooldamise ja lammutamiseni.

Part B COMPETENCY REQUIREMENTS

B.1 Structure of occupation

Ehituse tööjuht, tase 5 kutse koosneb üldoskustest B.2, kohustuslikest kompetentsidest B.3.1-B.3.8 ja valitavatest, spetsialiseerumisega seotud kompetentsidest B.3.9-B.3.23.

Ehituse tööjuhi kutse on spetsialiseerumispõhine. Võimalik on spetsialiseeruda ühele järgmistest tegevusaladest:

- 1) üldehitustööde tegemine;
- 2) sisekliima tagamise süsteemi ehitamine;
- 3) ehitusviimistlustööde tegemine;
- 4) hoonesisese ja selle juurde kuuluva vee- ja kanalisatsioonisüsteemide ehitamine;
- 5) eriehitustööde tegemine.

Kutse taotlemisel on nõutav üldoskuste B.2 tõendamine ja kohustuslike kompetentside B.3.1-B.3.8 tõendamine vastavalt spetsialiseerumisele.

Käesoleva jaotise punktides 1-3 ja 5 nimetatud tegevusaladel tuleb tõendada tervikspetsialiseerumine (st kõik spetsialiseerumisega seotud valitavad kompetentsid) või vastavus vähemalt ühele valitavale kompetentsile järgmiselt:

- üldehitustööde tegemine - B.3.9-B.3.12;
- ehitusviimistlustööde tegemine - B.3.13-B.3.16;
- sisekliima tagamise süsteemi ehitamine - B.3.17-B.3.19;
- eriehitustööde tegemine - B.3.21-B.3.23.

B.2 General skills of Construction Site Manager, EstQF Level 5

1. Juhindub oma tegevuses heast ehitustavast.
2. Kasutab sobivaid suhtlemisvorme ja -viise, arvestades olukorda ja suhtlemispartnerit; tuleb toime keerukates suhtlusolukordades.
3. Väljendab oma seisukohti selgelt ja hinnanguvabalt; on võimeline suhtluspartnerit aktiivselt ja kriitiliselt kuulama.
4. Mõistab ja kasutab oma töös erialast terminoloogiat.
5. Järgib oma töös ja meeskonnaliikmete töö organiseerimisel tööprotsessi kõikides etappides õigusaktidest tulenevaid töötervishoiu, keskkonnahoiu ja tööohutusenõudeid.
6. Arvestab oma ja meeskonnaliikmete tegevuses töö- ja ümbritseva keskkonna võimalike riskidega, kasutab ise ja nõuab meeskonnaliikmetelt ohutuse tagamiseks ohutustehniliste ja isikukaitsevahendite kasutamist.
7. Oskab lugeda ja saab aru ehitusjoonistest ja tehnilisest dokumentatsioonist, teostab vajalikud mõõdistused ja töö mahanägemised objektidel.
8. Teab ja rakendab oma töös ehitustööde dokumenteerimise nõudeid.
9. Hoiab meeskonnavaimu; algatab koostööd; juhendab meeskonna tööd, arvestades enda ja teiste rolli meeskonnas; peab kinni meeskonna liikmete vahelistest kokkulepetest; toetab meeskonna tulemuslikku tegutsemist; jagab meeskonnaliikmetega vajalikku informatsiooni, oma teadmisi ja kogemusi; korraldab töö sujuva toimimise.
10. Suhtleb tööalaselt eesti keeles (nõutav tase B2) ja ühes võõrkeeles (soovitavalt tasemel A2). Vt lisa 1 „Keelte oskustasemete kirjeldused“.
11. Kasutab oma igapäevatöös arvutit infoteaduse, ohutuse, kommunikatsiooni ja probleemilahenduse osas iseseisva kasutaja tasemel ning sisuloo osas algaja tasemel (Lisa 2 – Digipädevuste enesehindamise skaala).
12. Kasutab oma töös sobivaid ja kaasaegseid info- ja kommunikatsioonitehnoloogiat vahendite ja võimalusi ning erialaseks tööks vajaminevaid erialaspetsiifilisi tarkvaralahendusi.

B.3 Competences

MANDATORY COMPETENCES

B.3.1 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) building norms, standards and guidelines specific to the field; 4) legislation specific to the field.	
B.3.2 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) building norms, standards and guidelines specific to the field; 2) technological sequence of construction work; 3) legislation specific to the field;	
B.3.3 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.	
B.3.4 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) building norms, standards and guidelines specific to the field; 2) technological sequence of construction work; 3) legislation specific to the field.	
B.3.5 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) building norms, standards and guidelines specific to the field; 4) legislation specific to the field.	
B.3.6 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) legislation specific to the field.	
B.3.7 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) legislation specific to the field.	
B.3.8 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

Allpool nimetatud tegevusaladel (spetsialiseerumistel) tuleb tõendada tervikspetsialiseerumine (st kõik spetsialiseerumisega seotud valitavad kompetentsid) või vastavus vähemalt ühele valitavale kompetentsile järgmiselt:

- üldehitustööde tegemine - B.3.9-B.3.12;
- ehitusviimistlustööde tegemine - B.3.13-B.3.16;
- sisekliima tagamise süsteemi ehitamine - B.3.17-B.3.19;
- eriehitustööde tegemine - B.3.21-B.3.23.

B.3.9 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.3.10 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.3.11 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.3.12 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.3.13 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.3.14 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.3.15 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.3.16 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.3.17 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.3.18 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.3.19 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.3.20 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.	
B.3.21 Construction of flat roofs	EstQF Level 5
Performance indicators: 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.	
Knowledge: 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).	
B.3.22 Construction of pitched roofs	EstQF Level 5
Performance indicators: 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.	
Knowledge: 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.3.23 Performing whitesmith work	EstQF Level 5
Performance indicators: 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.	
Knowledge: 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.).	

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	22-22012021-1.1/4k
2. Occupational qualification standard compiled by:	Indrek Peterson, Eesti Ehitusettevõtjate Liit Ago Rehand, OÜ Viljandi Õhumeister Jüri Orlov, RMK Meelis Kann, Nordecon AS Tarmo Lige, Ligema OÜ Enno Pöder, Consiliario OÜ Margus Keerutaja, AS Sovek
3. Occupational qualification standard approved by:	Architecture, Geomatics, Construction and Real Estate
4. No. of decision of Sectoral Council	33
5. Date of decision of Sectoral Council	22.01.2021
6. Occupational qualification standard valid until	21.01.2026
7. Occupational qualification standard version no.	4
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	