

**Title of the qualification (FI, SV)**

Talotekniikan erikoisammattitutkinto
Specialyrkesexamen i husteknik

Qualification requirements entered into force on 01.01.2019 (OPH-1672-2018)

Translated title of the qualification (EN)

Specialist Vocational Qualification in Building Maintenance Technology

This translation has no legal status.

Profile of skills and competences**Composition of the qualification**

The scope of the Specialist vocational qualification in Building Maintenance Technology is 180 competence points.

Depending on the competence area, the scope of compulsory units in the qualification is between 80 and 130 competence points and the scope of optional units is between 50 and 100 competence points.

The Specialist vocational qualification in Building Maintenance Technology includes three competence areas and five qualification titles:

- Competence area in Contract Building Services Engineering
 - the qualification title is Pipe Fitter (SQ) if the student has chosen the unit Practical arrangements for a pipefitting contract
 - the qualification title is Ventilation Fitter (SQ) if the student has chosen the unit Practical arrangements for a ventilation contract
 - the qualification title is Construction Sheet-metal Worker (SQ) if the student has chosen the unit Practical arrangements for a technical insulation contact or Practical arrangements for a construction sheet-metal work contract
- Competence area in Chimney Sweeping, the qualification title is Chimney Sweep (SQ)
- Competence area in Refrigeration Technology, the qualification title is Refrigeration Planner.

Vocational skills and competences required for completion of the qualification

Pipe fitters (SQ) who have completed the Specialist vocational qualification in Building Maintenance Technology are able to take responsibility for the practical arrangements of a pipe fitting contract and tasks related to the quality management of pipe fitting at construction sites. They also know how to maintain contact with the authorities and collaborate with other stakeholder groups.

Ventilation fitters (SQ) who have completed the Specialist vocational qualification in Building Maintenance Technology are able to take responsibility for the practical arrangements of ventilation fitting contracts and tasks related to the quality management of the installation of ventilation systems at construction sites. They also know how to maintain contact with the authorities and collaborate with other stakeholder groups.

Construction sheet-metal workers (SQ) who have completed the Specialist vocational qualification in Building Maintenance Technology have the practical competence required for tasks related to arranging a construction metal-sheet work contract or technical insulation and their quality management at building construction or renovation work sites. They are capable of guiding a group of fitters and taking responsibility for the group's activities. In addition, they master the

communication related to the construction site, to the stakeholders of the construction site and to official regulations.

Chimney sweeps (SQ) who have completed the Specialist vocational qualification in Building Maintenance Technology are able to work as experts of their sector in issues related to fire and housing safety in addition to the traditional chimney sweeping work. They have extensive knowledge of heating technology: combustion, arrangements for replacement air, fuels, heating equipment and their energy efficiency. They master the methods that contribute to the economical use of energy by heating equipment and protecting the environment and are able to present solution models to improve these. They have good knowledge and skills regarding the planning of the operation of a chimney sweeping business and the development of business activities.

In the Competence area in Refrigeration Technology of the Specialist vocational qualification in Building Maintenance Technology, the competence required from professionals of refrigeration technology is demonstrated by working independently as a member of the work community in technical clerical tasks in the refrigeration field. Refrigeration planners who have completed a specialist vocational qualification work with customers and stakeholders in the operating environment and work tasks of the refrigeration field. Qualification holders utilise their broad theoretical knowledge and serve as experts of refrigeration technology to the company's employees and to customers in the refrigeration field. They plan and design refrigeration equipment that fulfils the customer's cooling and heating needs and prepare a quote for the customer. Refrigeration planners who have specialised in the planning and designing of refrigeration systems of their field plan the refrigeration equipment of their field and the related auxiliary systems independently from beginning to end. Those who have specialised in project management manage refrigeration system projects and sites independently and serve as supervisors to fitters as necessary. They perform the technical documentation on the refrigeration system delivered to the customer. Those who have specialised in electrical work and electrical planning draw up electrical plans for refrigeration systems independently. They give instructions to the electricians performing the electrical work related to refrigeration fitting and servicing, and once they have acquired sufficient vocational skills, they may be in charge of electrical work in a company.

Range of occupations accessible to the holder of the certificate

Pipe fitters (SQ) work at construction sites in responsible tasks related to the practical arrangements of pipe fitting contracts. They are responsible for the implementation of the work and the guidance of the members of the work group according to the given timetable and cost targets and the regulations and quality requirements concerning the work. In addition, they create the preconditions for the safe implementation of pipe fitting, take care of the arrangements related to the work environment and the steering of material flows necessary for the work.

Ventilation fitters (SQ) work at building sites in responsible tasks related to the arrangement of ventilation fitting contracts. They are responsible for the implementation of the work and the guidance of the members of the work group according to the given timetable and cost targets and the regulations and quality requirements concerning the work. In addition, they create the preconditions for the safe installation of ventilation systems, take care of the arrangements related to the work environment and the steering of material flows necessary for the work.

Construction sheet-metal workers (SQ) work in tasks related to the practical arrangements of the technical insulation fitting contract under the construction sheet-metal fitting contract and are responsible for the implementation of the work and possibly for the guidance of the other members of the work group. Qualification holders are responsible for following through the installation assignment according to the given timetable and costs targets and quality requirements. In addition, they create the preconditions for carrying the work out safely, take care of the arrangements related to the work environment and the steering of material flows necessary for the work in accordance with the targets.

Chimney sweeps (SQ) work as professionals or experts of fire and housing safety in the chimney sweeping sector either in a self-employed capacity or as part of a larger team.

Refrigeration planners may work in the following positions: in tender costing for a refrigeration system or as a salesperson, product manager, sales manager, supervisor in a company in the

refrigeration field, project coordinator, project engineer, project manager, head of maintenance, refrigeration planner, electrical wiring designer, head of planning, entrepreneur in the field of refrigeration fitting and maintenance, managing director.

Official basis of the certificate	
<p>Name and status of the body awarding the certificate An education provider with an authorisation to provide education and award qualifications granted by the Ministry of Education and Culture.</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate Ministry of Education and Culture Finnish National Agency for Education, the national agency subordinate to the Ministry of Education and Culture</p>
<p>Level of the certificate (national or international) National Qualifications Framework (nqf) 5 European Qualifications Framework (eqf) 5 ISCED 4</p>	<p>Grading scale/Pass requirements pass/fail</p>
<p>Access to the next level of education/training The qualification confers eligibility for higher education studies.</p>	<p>International agreements -</p>
<p>Legal basis Vocational Education and Training Act 531/2017 and the decrees that complement it.</p>	

Officially recognised ways of obtaining the certificate
<p>The vocational skills required for completing the modules are demonstrated by performing practical tasks in authentic situations and work processes (demonstration of knowledge and skills). The student's knowledge and skills are assessed diversely by a teacher and a working life representative and compared to the competence defined in the qualification requirements. The education provider awards the student a qualification certificate once the qualification has been completed acceptably in accordance to the qualification requirements laid down by the Finnish National Agency for Education.</p>
<p>Entry requirements No formal qualifications are required to take the competence test.</p>
<p>Additional information Finnish National Agency for Education P.O. Box 380, FI-00531 Helsinki, Finland www.oph.fi</p>

Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

For more information on transparency, visit <http://www.cedefop.europa.eu/en/themes/understanding-qualifications>