



1. Title of the certificate – Yrkeshögskoleexamen ¹

Ventilationsingenjör

2. Translated title of the certificate – Higher Vocational Education Diploma ²

Ventilation Engineer

3. Knowledge, Skills and Competence Profile

The holder of the certificate has:

Proficiency in:

Energy optimization of ventilation and refrigeration systems. Energy calculations, economics, and planning within the real estate sector. Qualified electrical knowledge, electrical safety, and digital technology. Energy efficiency and environmental considerations (Life Cycle Costing - LCC). Understanding of EU regulations, national requirements, laws, and developments in the field. Refrigerant technology, including natural and new refrigerants, and certification. Impact of indoor climate on human health and understanding of system interactions. Industry-specific English (both spoken and written) required for work within the field. Energy optimization, resource management, and environmental connections. In-depth knowledge of business development, leadership, organization, and project management. Presentation skills. English terminology and technical documentation related to the field. Describing alternative ventilation solutions where standardized approaches are not suitable.

Skills in:

Working with control and regulation systems within ventilation and refrigeration. Managing operation and maintenance of ventilation and refrigeration systems, creating service plans. Collaborating and communicating with suppliers and customers. Engaging in design work during construction related to ventilation layouts and solutions. Reading and interpreting drawing materials, performing sizing and energy calculations individually or within projects. Independently handling customer and supplier contacts. Expressing oneself professionally in both spoken and written communication. Planning the installation of climate and ventilation systems. Identifying, analyzing, and proposing energy-saving measures. Reading and comprehending relevant English information and technical documentation related to the profession.

Competencies include:

Complex troubleshooting, repairs, and preventive maintenance. Responsibility for operational planning, prioritization of needs, and some supervisory tasks. Independent work as a qualified technician within the industry. Independent work with refrigeration technology, heat pump technology, and climate technology. Possession of interdisciplinary competence, both theoretical and practical application. Entrepreneurship and business competence. Analyzing changes in the external environment and new technologies to drive energy optimization improvements. Coordinating climate and ventilation systems with regard to operation, economy, and energy efficiency, using new techniques to enhance optimization efforts. Presenting and communicating materials in English to workgroups and clients. Leading and managing projects by taking responsibility for planning, goal-setting, and leadership toward established objectives.

4. Range of occupations accessible to the holder of the certificate ³

Project manager, construction and civil engineering. Site supervisor, ventilation. Industrial designer, ventilation. Ventilation engineer. Ventilation technician, engineer.

¹ In the original language. | ² If applicable. This translation has no legal status. | ³ If applicable.

5. Official basis of the certificate

Name and address of the awarding institution

Lernia Utbildning AB
YH
Thulegatan 1A
903 26 Umeå

Authority providing accreditation / recognition of the certificate

The Swedish National Agency for Higher Vocational Education
Box 145
721 05 Västerås, Sweden
www.myh.se

Level of the certificate (national or European) ¹

Level 5 in the National Qualifications Framework (SeQF)
Level 5 in the European Qualifications Framework (EQF)

Grading scale / Pass requirements

Fail (icke godkänt – IG)
Pass (Godkänt – G)
Pass with distinction (Väl godkänt – VG)

Access to next level of education / training ¹

International agreements on recognition of qualifications ¹

The Higher Vocational Certificate requires a minimum of a Pass (Godkänt) in all courses.

Legal basis

A Higher Vocational Education Certificate is awarded if the study programme comprises a minimum of 200 Higher Vocational Education credits (HVE credits). Five HVE credits correspond to one week of full-time studies.

6. Officially recognised ways of acquiring the certificate

Description of vocational education and training	Percentage of total programme (%)	Duration (/weeks)
College/education centre	75 %	60 weeks
Placement – learning in a work environment	25 %	20 weeks
Total duration of the education / training leading to the certificate		80 weeks

7. Additional information

Entry requirements ¹

Entry requirement is successful completion of upper secondary education.

More information (including a description of the national qualifications system)

For more information on higher vocational education, please visit the website of the Swedish National Agency for Higher Vocational Education: www.myh.se

National Europass Centre

[National Europass Centres | Europass](#)

¹ If applicable.