



### 1. Title of the certificate – Yrkeshögskoleexamen <sup>1</sup>

Maintenance Technician – Electrical and Automation

### 2. Translated title of the certificate – Higher Vocational Education Diploma <sup>2</sup>

Underhållstekniker el- och automation

### 3. Knowledge, Skills and Competence Profile

The holder of the certificate has:

Knowledge of basic tasks in a maintenance management system and how maintenance is organized and performed in different production facilities.

Knowledge of terminology used in maintenance work according to SS-EN 13306 standard, in both Swedish and English.

Knowledge of corrective and preventive maintenance and their impact on operational reliability.

Knowledge of industry 4.0, digitalization, and sustainability. Materials science, strength of materials, technical drawing interpretation, hydraulics and pneumatics, including associated manufacturing methods.

Knowledge of machine elements and machine systems related to equipment in electrical and mechanical production and distribution plants, considering environmental, safety, and economic requirements.

Knowledge of occupational health and safety related to safe maintenance work.

Knowledge of structure and function of electrical systems and how to perform electrical installation work in compliance with professional, safety, and workplace standards.

Knowledge of structure and operation of switchgear used for grid connections.

Skills in measuring, inspecting, and performing preventive maintenance rounds on production equipment.

Skills in proposing solutions to electrical installation problems.

Skills in performing basic service and maintenance tasks on electrical or production facilities.

Skills in automation, control, and monitoring: control technology and regulation of various control devices.

Skills in ESA-19 safety procedures, hot work, fall protection at heights up to 9 meters, CPR for electrical injuries/First aid.

Competence to independently select the most appropriate protective equipment and method for the task.

Competence to independently program PLC systems: commission and troubleshoot field devices and PLCs, and resolve any faults.

Competence to independently perform maintenance work on electrical, hydraulic, and mechanical systems in a safe and environmentally responsible manner, applying methods and techniques used in service and repair with a focus on electricity, mechanics, hydraulics, and automation.

### 4. Range of occupations accessible to the holder of the certificate <sup>3</sup>

Electrical and automation maintenance technician, electromechanical technician, hydraulic fitter eller hydraulic technician, service technician, automation technician, maintenance manager, maintenance coordinator.

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

## 5. Official basis of the certificate

### Name and address of the awarding institution

Lernia Utbildning AB  
Box 787  
801 29 Gävle

### Authority providing accreditation / recognition of the certificate

The Swedish National Agency for Higher Vocational Education  
Box 145  
721 05 Västerås, Sweden  
[www.myh.se](http://www.myh.se)

### Level of the certificate (national or European) <sup>1</sup>

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 <sup>1</sup>

### International agreements on recognition of qualifications <sup>1</sup>

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 <sup>1</sup>

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](http://www.myh.se)

### National Europass Centre

[National Europass Centres | Europass](#)

<sup>1</sup> If applicable.