

1. TITLE OF THE CERTIFICATE (DE) ⁽¹⁾

**Lehrabschlussprüfungszeugnis Elektrotechnik –
Elektro- und Gebäudetechnik**

⁽¹⁾ in original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN) ⁽²⁾

**Certificate of Apprenticeship
“Electrical Engineering specialising in Electrical Engineering and Building
Technology” (f/m)**

⁽²⁾ This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES**Specialist areas of competence:****Basic module**

- Basics of electrical engineering
- Electrical systems and machines
- Automation and systems engineering

Main module ‘Electrical Engineering and Building Technology’

The specialist in electrical engineering specialising in electrical engineering and building technology is entrusted with the setting up, testing, documentation and commissioning of electrical systems in building technology. These include the power supply and distribution systems in buildings as well as electrical systems (such as lighting, communication, hazard signalling, earthing and lightning protection systems, electrical machines, electrical appliances). He/she is also responsible for the automation of these systems and makes modifications and extensions to these systems.

The specialist is also responsible for the technical support of electrical systems in building technology. This includes ongoing maintenance as well as the systematic localisation, detection and rectification of faults, defects and malfunctions. In order to carry out his/her work professionally, the specialist reads electrical drawings and plans, and operates many types of hand tools, hand-held machines and measuring devices while complying with safety regulations and safety standards.

His/her tasks also include setting up, testing and documenting protective measures to prevent personal injury and damage to property. The specialist therefore has significant responsibility for the safety of building systems and households.

Training courses in one of the following special modules can be provided in addition to the basic and main module, with the aim of offering more in-depth know-how and specialisation.

Special module ‘Smart Home’

The specialist in electrical engineering specialising in smart home is entrusted with the setting up, programming, testing, documentation and commissioning of building system technology installations using smart home technologies. These include, for example, lighting, shading, sound, alarm, energy management and remote access systems. He/she also makes modifications and extensions to these systems as part of smart home technology.

He/she is also responsible for the technical support of these systems. This includes, in particular, the systematic localisation, detection and rectification of faults, defects and malfunctions.

Special module ‘Building Technology’

The tasks of the specialist in electrical engineering specialising in building technology include the setting up, programming, testing, documentation and commissioning of building system technology installations, in particular for air conditioning, heating and ventilation systems. He/she also makes modifications and extensions to building system technology installations.

He/she is also responsible for the technical support of these installations. This includes ongoing maintenance as well as the systematic localisation, detection and rectification of faults, defects and malfunctions.

Special module ‘Renewable Energies and Electromobility’

The primary area of responsibility of the specialist in electrical engineering specialising in renewable energies and electromobility is the assembly of panels in the corresponding brackets, the installation, testing, documentation and

commissioning of systems for generating and storing renewable energies (such as photovoltaic and wind power plants as well as energy storage systems) and of equipment for charging electric vehicles. He/she also makes modifications and extensions to systems for the generation and storage of renewable energies.

He/she is also responsible for technical support here. This includes, in particular, the systematic localisation, detection and rectification of faults, defects and malfunctions.

Special module 'Network Technology'

The specialist in electrical engineering specialising in network technology is involved in setting up, testing, documenting and commissioning industrial networks (taking into account environmental and infrastructural requirements) as well as integrating components (e.g. machines, visualisation systems, sensors, actuators). He/she also makes modifications and extensions to industrial networks.

He/she is also responsible for the technical support of industrial networks and their components. This includes ongoing maintenance as well as the systematic localisation, detection and rectification of faults, defects and malfunctions.

Interdisciplinary areas of competence:

- Working in an operational and professional environment
- Quality oriented, safe and sustainable work
- Digital work

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE ⁽³⁾

Range of occupations:

Employment including in electrical installations and building technology enterprises, in machine and plant construction enterprises, service enterprises for building technology, companies of the real estate and facilities management industry, building managers and airport companies, railway stations and large-scale public facilities

⁽³⁾ if applicable

(*) Explanatory note

This document has been developed with a view to providing additional information on individual certificates; it has no legal effect in its own right. These explanatory notes refer to the Decision (EU) no. 2018/646 of the European parliament and the Council of 2 May 2018 on a common framework for the provision of better services for skills and qualifications (Europass).

More information on Europass is available at: <http://europass.cedefop.europa.eu> or www.europass.at

5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Name and status of the body awarding the certificate</p> <p>Lehrlingsstelle der Wirtschaftskammer</p> <p>(Apprenticeship Office of the Economic Chamber; for the address, see certificate)</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>Bundesministerium für Arbeit und Wirtschaft (Federal Ministry for Labour and Economy)</p>
<p>Level of the certificate (national or international)</p> <p>NQF/EQF 4 ISCED 35</p>	<p>Grading scale / Pass requirements</p> <p>Overall performance: Pass with Distinction Good Pass Pass Fail</p>
<p>Access to next level of education/training</p> <p>Access to the <i>Berufsreifeprüfung</i> (i.e. certificate providing university access for skilled workers) or a vocational college for people under employment.</p> <p>Access to relevant courses at a <i>Fachhochschule</i> (i.e. university level study programme of at least three years' duration with vocational-technical orientation); additional examinations must be taken if the educational objective of the respective course requires it.</p>	<p>International agreements</p> <p>Between Germany, Hungary, South Tyrol and Austria, international agreements on the mutual automatic recognition of apprenticeship-leave examinations and other vocational qualifications have been concluded. Information on equivalent apprenticeship occupations can be obtained from the Federal Ministry for Labour and Economy.</p>
<p>Legal basis</p> <ol style="list-style-type: none"> 1. Training Regulation for Electrical Engineering BGBl. II (Federal Law Gazette) No. 386/2023 (company-based training) 2. Curriculum framework (education at the vocational school for apprentices) 3. The present apprenticeship trade replaces the apprenticeship trade Electrical Engineering (Training and 	

Examination Regulation BGBl. II (Federal Law Gazette) No. 195/2010 as amended by BGBl. II (Federal Law Gazette) No. 148/2018), which expires as of 31 of December 2024.

4. The apprenticeship Electrical Engineering has been set up as a modular apprenticeship. Following the basic and main module, there exists the option to provide training in a special module (see 3. profile of skills and competences). Information about the modules is provided in the Certificate of Apprenticeship.

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

1. Training in the framework of the given Training Regulation for Electrical Engineering and of the curriculum of the vocational school for apprentices. Admission to the final apprenticeship examination upon completion of the apprenticeship period specified for the apprenticeship trade concerned. The final apprenticeship examination aims to establish whether the apprentice has acquired the skills and competences required for the respective apprenticeship trade and is able to carry out the activities particular to the learned trade herself/himself in an appropriate manner.
2. Admission to the final apprenticeship examination in accordance with Article 23 (5) of the *Berufsausbildungsgesetz* (Vocational Training Act). An applicant for an examination is entitled to sit the final apprenticeship examination without completing a formal apprenticeship training if she/he has reached 18 years of age and is able to prove acquisition of the required skills and competences by means of a relevant practical or an on-the-job training activity of appropriate length, by attending relevant courses etc.

Additional information:

Entry requirements: successful completion of 9 years of compulsory schooling

Duration of training: Basic module and main module: 3.5 years; basic module, main module and special module: 4 years.

Enterprise-based training: Enterprise-based training comprises $\frac{4}{5}$ of the entire duration of the training and focuses on the provision of job-specific skills and competences according to Article 3 of the Training Regulation, BGBl. II (Federal Law Gazette) No. 386/2023, enabling the apprentice to exercise qualified activities as defined by the profile of skills and competences specified above (cf. job profile).

Education at vocational school: School-based education comprises $\frac{1}{5}$ of the entire duration of the training. The vocational school for apprentices has the tasks of imparting to apprentices the basic theoretical knowledge, of supplementing their enterprise-based training and of widening their general education in the framework of subject-oriented part-time instruction.

More information (including a description of the national qualification system) is available at: www.zeugnisinfo.at and www.edusystem.at

National Europass Center: europass@oead.at
Ebendorferstraße 7, A-1010 Wien; Tel. + 43 1 53408-684