europass

CERTIFICATE SUPPLEMENT (*)

Austria

1. TITLE OF THE CERTIFICATE (DE) (1)

Lehrabschlussprüfungszeugnis Elektronik – Angewandte Elektronik

(1) in original language

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

Certificate of Apprenticeship "Electronics specialising in Applied Electronics" (f/m)

(2) This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES

Specialist areas of competence:

Basic module

- Basics of electronics
- Electrical safety, electromechanical components and circuits
- Network and transmission technology

Main module 'Applied Electronics'

The specialist in electronics – main module applied electronics produces electrical, electronic and microtechnical components, assemblies and parts for devices, machines and systems of all kinds. This work is based on drawings (e.g. 2D and 3D design drawings, circuit diagrams) or electronic plans with circuit diagram and electronic symbols, which he/she also creates himself/herself with computer support, taking standard specifications into account. He/she uses various processes (etching, screen printing, milling) to manufacture printed circuit boards and assembles printed circuit boards according to circuit diagrams or samples with current components (e.g. surfaced-mounted device – SMD, through-hole technology – THT) with the aid of suitable tools, assembly aids (e.g. vacuum pipette) and devices. He/she then finalises the printed circuit boards using a suitable soldering process and checks to see they work, after which he/she eliminates any soldering errors that are detected. Based on specified criteria, he/she carries out functional or defect checks on existing electronic circuits or adapts electronic circuits to new requirements and/or optimises them. In order to carry out his/her work properly, the specialist reads technical documents (e.g. circuit diagrams, component sketches, assembly plans, operating instructions, occupation-related regulations) and works with various hand tools and machines as well as measuring devices (e.g. analogue, digital and optical measuring devices, oscilloscopes, sensors) in compliance with safety regulations and safety standards.

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 'Network Technology'

The tasks of the specialist in electronics specialising in network technology include setting up, configuring, commissioning, managing and securing server operating systems and networks. He/she creates the network configuration of PCs and assigns IP addresses.

He/she also makes modifications and extensions to server operating systems and networks. He/she is also responsible for the technical support of these installations. He/she rectifies faults and searches for sources of error using special measuring devices. He/she replaces cables, parts and network components, updates operating systems and software and carries out network customisations.

Special module 'Railway Telecommunications Technology'

The tasks of the specialist in electronics specialising in railway telecommunications technology include setting up, commissioning, testing and documenting workstations at train itinerary checkpoints, video systems, loudspeaker systems, clock systems, automatic train destination display systems and computer-aided train monitoring systems. He/she is also responsible for the technical support and repeated checking of these installations. He/she receives fault reports, makes error diagnoses and takes immediate action. His/her tasks include ongoing maintenance as well as the systematic localisation, detection and rectification of faults, defects and malfunctions. The specialist uses help desk and workflow systems to process customer orders.

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 companies involved in the production, assembly and repair of electronic, communication and information technology equipment, machines and systems, trading companies for electrical and electronic equipment with service and repair workshops, as well as transport companies and energy supply companies

[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) 2018/646 of the European Parliament and of the Council of 18 April 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

Name and status of the body awarding the certificate	**Name and status of the national/regional authority providing accreditation/recognition of the certificate**
Lehrlingsstelle der Wirtschaftskammer (Apprenticeship Office of the Economic Chamber; for the address, see certificate)	Bundesministerium für Wirtschaft, Energie und Tourismus (Federal Ministry for Labour and Economy)
Level of the certificate (national or international) NQF/EQF 4 ISCED 35	**Grading scale / Pass requirements** Overall performance: Pass with Distinction Good Pass Pass Fail
Access to next level of education/training Access to the *Berufsreifeprüfung* (i.e. certificate providing university access for skilled workers) or a vocational college for people under employment. Access to relevant courses at a *Fachhochschule* (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.	**International agreements** 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).

Legal basis
1. Training Regulation for Electronics BGBl. II (Federal Law Gazette) No. 181/2024 (company-based training)
2. Curriculum framework (education at the vocational school for apprentices)
3. The present apprenticeship trade replaces the apprenticeship trade Electronic Engineering Specialising In Electronics (Training and Examination Regulation BGBl. II (Federal Law Gazette) No. 147/2001, which expired as of 30 of June 2024.
4. The apprenticeship "Electronics" has been set up as a modular apprenticeship. Following the basic and main module, there exists the option to provide training in an additional main or special module. Apprentices can select the additional main module "Electronics – Information and Communication Electronics". Information about the main and special 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 Electronics 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; basic module and two main modules: 4 years

Enterprise-based training: Enterprise-based training comprises $^{4}/_{5}$ 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. 181/2024, 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 $^{1}/_{5}$ 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 Centre: europass@oead.at
Ebendorferstraße 7, A-1010 Vienna; Tel. + 43 1 53408-684