

1. TITLE OF THE CERTIFICATE (DE) ⁽¹⁾

**Lehrabschlussprüfungszeugnis Metalltechnik –
Hauptmodul Schweißtechnik**

⁽¹⁾ in original language

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

Certificate of Apprenticeship 'Metal Technology Specialising in Welding' (f/m)

⁽²⁾ This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES**Interdisciplinary areas of competence:**

1. Working in an operational and professional environment
2. Quality oriented, safe and sustainable work
3. Digital work

Specialist areas of competence:

4. Test technology and material technology
5. Manufacturing technology and mechanical engineering
6. Automation and manufacturing management

Professional profile main module welding:

The professional is able to

1. Read technical documents, sketches, drawings suitable for manufacturing or 3D models, extract required information from them, identify and describe any defects and produce sketches and drawings suitable for manufacturing or 3D models taking into account standard specifications,
2. Select and use testing and measuring equipment depending on the order, check the plausibility of the obtained results and identify any sources of error,
3. Use personal protective equipment and determine the safety of hand tools, hand-guided machines and machinery through visual inspections,
4. Carry out joining and separating techniques (screwing, gluing, pressing, soldering, drilling, cutting, sawing) with suitable tools, equipment and machines,
5. Carry out forming techniques (bending, pressing, straightening) with suitable hand tools and machines,
6. Carry out preparatory and follow-up work for welding processes,
7. Select suitable welding procedures, taking into account the influence of various parameters (e.g. welding materials, filler materials, thermal behaviour, types of weld joint, welding edges, welding positions, weather influences),
8. Decide on the basis of the process instruction of the respective material whether preheating is necessary for the respective welding process,
9. Weld in different positions (in particular flat position (PA), horizontal-vertical (PB), vertical position (PF) and horizontal position (PC)) using the welding processes MAG 135, TIG 141, manual metal arc welding 111 in order to manufacture products depending on the order,
10. Identify welding irregularities by means of visual inspection, determine possible causes and inform the person in charge,
11. Carry out work such as production inspections within the framework of quality management,
12. Take into account the relevant regulations and legal provisions for all work.

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.

Professional profile process and project management:

1. Participate in the implementation of production management (e.g. production planning, quantity planning, scheduling and capacity planning, production control, production data acquisition, production data evaluation),
2. Evaluate manufacturing processes with regard to their advantages and disadvantages and select them by means of production trials,
3. Suggest the possibilities of using more advanced automation technology with a view to increasing efficiency,
4. Draw up project plans for projects or sub-projects assigned to him/her (e.g. in the case of production trials, production problems, new investments) based on the specifications of the project management,
- 5 Chair meetings and present work results using presentation aids (presentation programs).

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

Range of occupations:

Employment in commercial and industrial workshops and factory halls, for instance for joining components and materials (e.g. pipes, sheet metal, plastic, aluminium) to machines, boilers, scaffolding, etc. using suitable welding tools and techniques (e.g. pressure welding, fusion welding, inert gas welding, hard soldering). Subsequently, cleaning of the finished workpieces and treatment of the surfaces with the aid of various techniques (such as polishing, grinding and varnishing).

⁽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</p> <p>(Federal Ministry for Labour and Economy)</p>
<p>Level of the certificate (national or international)</p> <p>NQF/EQF 4</p> <p>ISCED 35</p>	<p>Grading scale / Pass requirements</p> <p>Overall performance:</p> <p>Pass with Distinction</p> <p>Good Pass</p> <p>Pass</p> <p>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 Digital and Economic Affairs.</p>
<p>Legal basis</p> <ol style="list-style-type: none"> 1. Training Regulation for metal technology BGBl. II (Federal Law Gazette) No. 97/2022 (company-based training) 2. Curriculum framework (education at the vocational school for apprentices) 3. The present apprenticeship trade replaces the apprenticeship trade metal technology (Training and Examination Regulation BGBl. II (Federal Law Gazette) No. 148/2011 as amended by BGBl. II (Federal Law Gazette) No. 	

149/2018), which expired with the exception of article 4 to 15 as of April 30, 2022. Article 4 to 15 will cease with the effect on December 31, 2023.

4. The apprenticeship 'metal technology' has been set up as a modular apprenticeship. Following the basic and main module there is the option to provide training in an additional main module or the special module process and project management. Apprentices can select the additional main module 'metal construction and steel sheet engineering' or 'steel engineering'. Information on the 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 metal technology 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: 3.5 to 4 years basic and main module; basic, main and special module/additional main 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 11 of the Training Regulation, BGBl. II (Federal Law Gazette) No. 97/2022, 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

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