europass

CERTIFICATE SUPPLEMENT (*)

Austria

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

Lehrabschlussprüfungszeugnis Tischlereitechnik – Schwerpunkt Modell- und Formenbau

(1) in original language

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

Certificate of Apprenticeship 'Joinery Technology Specialising in Model and Mould Making' (f/m)

(2) This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES

Specialist areas of competence:

Common professional competence area: tasks concerning the joinery technology

The professional for model and mould making designs workpieces, taking into account relevant design principles and the effect of different materials, surfaces, shapes, light and colour. He/she creates sketches and drawings suitable for manufacturing, also using industry-specific design software (computer-aided design – CAD). The professional recognises incomplete and incorrect information in order documents and technical drawings as well as designs that cannot be implemented. He/she accepts goods in compliance with legal and operational requirements and identifies any defects.

The professional also ensures the usability or readiness for use of materials, tools, equipment, machines and systems, selects and prepares them. He/she sets up machines and systems for material processing and surface finishing and sets different parameters such as speeds.

In the area of repair, the professional identifies damage and defects on workpieces, selects possibilities for rectification and repairs them professionally. He/she carries out quality controls and functional tests and takes appropriate measures such as reworking the workpiece. He/she also packs workpieces so they are suitable for transport and prepares materials and equipment for transport.

On building sites or during assembly, the professional acts professionally and coordinates his/her activities with different trades. He/she informs different target groups about workpieces, for example by advising on professional care or pointing out special functions.

Special-focused professional competence area: model and mould making

The professional for model and mould making plans workpieces on the basis of the respective order. In doing so, he/she observes common designs, e.g. of models or core boxes. The professional converts ideas, sketches, 2D drawings or 3D data sets into production data sets. He/she designs moulds for different materials and models, specifies divisions, cuts and parting planes and defines draughts and wall thicknesses. The professional checks designs for their feasibility and recognises undercuts. He/she creates representations necessary for production by professionally plotting or converting drawings and plans. For transfer to production data sets, he/she defines specifications such as scaling factors and uses them, for example, to compensate for shrinkage during production. In addition, the professional collaborates in the development or further development of models in coordination with the client.

He/she derives design drawings suitable for manufacturing for machining (CAD/CAM), creates programs and operates machines and systems, taking into account the relevant safety regulations.

The professional selects and proposes an option for model, tool or prototype production (such as casting, deep-drawing or rapid prototyping like 3D printing or laser sintering). He/she makes models from different materials (wood, metal or plastic), e.g. by casting and laminating, finishes them and reworks them.

The professional works on materials, workpieces and their surfaces and makes specialised connections, such as bonded joints. In doing so, he/she carries out various processes such as sawing, grinding, milling, turning, blasting, polishing or applying lacquers, release agents and waxes.

He/she uses these to produce, for example, core boxes, templates, tools, foundry, remould, copy and original models, moulds, architectural and functional models, design and master models, mock-ups, model and clamping devices and

finishing tools. He/she checks the quality of produced models and compares determined data with the original data set.

The professional arranges/assembles workpieces, positions, installs and secures them. In doing so, he/she observes relevant standards and legal regulations and different installation techniques. He/she also revitalises worn-out models. When handing over workpieces and especially when in contact with clients, the professional acts professionally.

Interdisciplinary areas of competence:

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

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

Range of occupations:
Employment of professionals for joinery technology specialising in model and mould making including in workshops, planning offices, in the woodworking industry, in commercial joinery businesses and on-site with customers in the planning, creation, installation and finishing of the surfaces of models, tools, construction elements, moulds and prototypes made of wood, metal and plastic, which serve as templates for individual and series production of a wide range of products.

(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

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 Arbeit und Wirtschaft (Federal Ministry of 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 of Labour and Economy.

Legal basis

1. Training Regulation for joinery technology BGBl. II (Federal Law Gazette) No. 313/2022 (company-based training)
2. Curriculum framework (education at the vocational school for apprentices)
3. The present apprenticeship trade replaces the apprenticeship trade plattern builder (Training and Examination Regulation BGBl. II (Federal Law Gazette) No. 289/1998 as amended by BGBl. II (Federal Law Gazette) No. 177/2005), which expired as of August, 31 2022.

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

1. Training in the framework of the given Training Regulation for joinery 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: 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. 313/2022, 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 $^{1}/_{5}$ 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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