

1. TITLE OF THE CERTIFICATE (DE)⁽¹⁾

**Abschlussprüfungszeugnis der Fachschule für Maschinenbau mit Betriebspraxis,
Ausbildungsschwerpunkt Fertigungs- und Automatisierungstechnik**

⁽¹⁾ in original language

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

**Final Examination Certificate of the School of Mechanical Engineering with Company-Based Practice,
Subject Area: Production and Automation Engineering**

⁽²⁾ This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES**General competences:**

- Adequate oral and written presentation of facts, products and processes of everyday and professional life in correct German and English at level B1 to suit the situation and the recipient
- Safe application of the standard mathematical and statistical methods used in professional practice, including the practice-oriented use of modern calculating aids
- Business management, business organisation and legal skills as required for setting up and managing companies

Specialist competences:

- In-depth understanding of the structure, mode of operation and maintenance of mechanical engineering plants
- Planning, implementation and testing of work processes according to the requirements of quality management
- Sound understanding of the interaction between planning (design, calculation) and production
- Design, development and machine production of mechanical engineering components with in-depth knowledge of CNC and CAM technology and basic knowledge of electrical and automation engineering
- Tool selection for and programming of multi-axis CNC machines and transfer of CAD designs into the manufacturing programs (CAM)
- Design of basic pneumatic and hydraulic circuits as well as electrical installation circuits according to circuit diagrams
- Commissioning and troubleshooting of rotating and linear drive units as well as maintenance of control technology components

Personal and social competences:

- Behaviour in the professional and private environment that is appropriate to the situation and corresponds to social norms
- Ability to work in a team and team-oriented work, problem-solving skills, personal responsibility and empathy
- Capacity for professional mobility and flexibility
- Supervision and management of standardised work processes and the further development of these processes

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE⁽³⁾**Range of occupations:**

Employee or entrepreneur with broad theoretical and factual knowledge of the industry. They can perform tasks and solve problems which require knowledge of sound cognitive and practical skills in the respective sector. They use basic methods and tools and can select materials and information according to their needs.

Pursuit of regulated professions on a self-employed basis (see also www.gewerbeordnung.at)

⁽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. This explanatory note refers to Council Resolutions 93/C 49/01 of 3 December 1992 on the transparency of qualifications and 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers. More information on transparency is available at: <http://europass.cedefop.europa.eu> and www.europass.at

5. OFFICIAL BASIS OF THE CERTIFICATE	
Name and status of the body awarding the certificate Educational institution recognised by the State of Austria, for address see certificate	Name and status of the national/regional authority providing accreditation/recognition of the certificate Federal Ministry of Education, Science and Research
Level of the certificate (national or international) EQF/NQF 4 ISCED 35	Grading scale / Pass requirements 1 = excellent (excellent performance) 2 = good (good performance throughout) 3 = satisfactory (balanced performance) 4 = sufficient (performance meeting minimum pass levels) 5 = not sufficient (performance not meeting minimum pass levels) In addition, the overall performance at the final exam is rated as follows: Pass with distinction, Good pass, Pass, Fail
Access to next level of education/training Access to the Berufsreifeprüfung or an add-on course. Access to courses at a university of applied sciences; additional examinations must be taken if the educational objective of the respective course requires it.	International agreements The training level of a training programme completed with this certificate satisfies the requirements set out in Article 11, point (b) of Directive 2005/36/EC on the recognition of professional qualifications, as last amended by Directive 2013/55/EU.
Legal basis Curriculum regulation, Federal Law Gazette II No 240/2016 current version and examination regulation for BMHS (concerning the final exams in vocational schools and colleges), Federal Law Gazette II No 177/2012 current version	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE
<ol style="list-style-type: none"> 1. Training and education as defined by the National Curriculum for the School of Mechanical Engineering with Company-Based Practice, Subject Area: Production and Automation Engineering 2. External examination procedure according to the external examination ordinance (Externistenprüfungsverordnung)
<p>Additional information:</p> <p>Entry requirements: successful completion of school year 8, if necessary entrance examination</p> <p>Duration of education: 8 semesters</p> <p>Duration of work placement: in total 4 weeks</p> <p>Company-based practice: Connected subject-related practical instruction in the 7th semester with the aim of preparing specifically for the subsequent professional activity.</p> <p>Educational objectives: Intensive vocational training in occupation-related practical and theoretical subjects as well as in general education and commercial subjects. Teaching methods of thinking as well as work and decision-making attitudes which enable graduates to directly exercise professions in the technical and commercial fields as part of the industrial and commercial economy. Use of personal and social competences in the way they are required for modern forms of work and communication – including in multicultural teams. Modern frames of mind and attitudes to work, such as a cosmopolitan attitude, creativity and innovative capacity.</p> <p>Subjects include: see List of Subjects in the Final Examination Certificate</p> <p>More information (including a description of the national qualification system) is available at: http://www.zeugnisinfo.at and http://www.bildungssystem.at and http://www.bmbwf.at</p> <p>National Europass Center: europass@oead.at</p>