

**1. TITLE OF THE CERTIFICATE (DE) <sup>(1)</sup>**

**Lehrabschlussprüfungszeugnis Betonfertigteiltechnik**

<sup>(1)</sup> in original language

**2. TRANSLATED TITLE OF THE CERTIFICATE (EN) <sup>(2)</sup>**

**Certificate of Apprenticeship "Precast Concrete Technology" (f/m)**

<sup>(2)</sup> This translation has no legal status.

**3. PROFILE OF SKILLS AND COMPETENCES**
**Specialist areas of competence:**
**Concrete production**

The precast concrete technology specialist takes on a wide range of tasks in the production and testing of concrete mixtures and concrete for various precast elements. In doing so, he/she draws on his/her extensive knowledge of the characteristics, areas of application and formula of concrete. As part of the work, the specialist identifies the requirements for the concrete coverings and checks specified concrete formulas for their technical suitability for use with the finished concrete part. He/she also carries out tests on concrete mixtures and concrete samples to determine the air pore content, for example. The specialist checks the plausibility of the obtained results and documents them in a comprehensible way.

**Precast concrete production**

The precast concrete technology specialist assesses the received production plans and technical drawings. In doing so, he/she checks whether the specifications regarding installations and reinforcements meet the necessary requirements, such as assembly capability or material suitability. Any deviations or incorrect information shall be identified, documented and communicated by the specialist. The specialist selects materials, such as wood, steel and plastic, according to requirements and prepares them for processing in formwork, installations and reinforcements in a timely manner. To create formwork ready for concreting, the specialist determines a suitable manual and mechanical production method and also makes detachable and non-detachable connections. He/she also prepares already used and reusable formwork. Using suitable release agents, the specialist ensures perfect separation of the hardened concrete from the formwork. He/she lays the concrete required for the work using prescribed compaction methods, for example by means of an external or internal compactor. In accordance with the order, the specialist finishes the surface of the placed concrete using suitable methods, such as smoothing, levelling and broom finishing, and uses suitable inserts for a structured surface if required. The specialist strips the formwork from the hardened precast concrete part, lifts it off and prepares it for transport. He/she also operates and monitors the production facilities and assists with set-up, loading and maintenance. When carrying out the work, he/she takes into account the operational specifications as well as the relevant legal provisions and standards.

**Preparation of precast concrete parts**

For the final inspection and finishing, the specialist checks various parameters on the precast concrete part, such as the size and the surface quality. He/she identifies damage and defects and takes appropriate measures according to operational specifications, such as treating slight surface damage or adjusting the concrete formula. In addition, the specialist uses abrasive processes, such as grinding and polishing, or application processes, such as oiling and waxing, to seal and finish concrete. The precast concrete technology specialist stores the precast concrete parts according to operational specifications, prepares them for transport and loads them while ensuring the load is secured.

**Interdisciplinary areas of competence:**
**Working in an operational and professional environment**

The precast concrete technology specialist has basic knowledge of the operational range of services and operational contexts in order to organise and carry out his/her activities efficiently. The specialist acts in a self-competent and socially and methodically competent manner and handles the tasks assigned to him/her in a solution-oriented manner and in accordance with the situation. Furthermore, the specialist communicates in a target group-oriented manner, in a way appropriate for the profession including with the use of technical terms, and acts in a customer-oriented manner when carrying out all his/her tasks.

**Quality oriented, safe and sustainable work**

The precast concrete technology specialist applies the principles of operational quality management and is involved in

the further development of operational standards. He/she reflects on his/her own approach and uses the knowledge gained in his/her area of responsibility. The precast concrete technology specialist observes the legal and operational regulations for his/her personal safety and health at work and acts appropriately in the event of accidents and injuries. As part of his/her duties, the specialist takes into account significant impacts of his/her activities on the environment and therefore acts in a sustainable and resource-conserving manner.

#### **Digital work**

The precast concrete technology specialist efficiently uses the digital equipment, operational software and digital forms of communication suitable for his/her tasks within the framework of the legal and operational requirements. He/she digitally procures the internal and external information required for handling tasks. The precast concrete technology specialist acts purposefully and responsibly on the basis of his/her digital competence. This includes, in particular, the sensitive and secure handling of data, taking into account legal and operational requirements (e.g. the General Data Protection Regulation).

#### **4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE <sup>(3)</sup>**

##### **Range of occupations:**

Employment including in businesses producing concrete goods commercially and industrially and in the cement industry

<sup>(3)</sup> 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](http://www.europass.at)

5. OFFICIAL BASIS OF THE CERTIFICATE	
<b>Name and status of the body awarding the certificate</b> Lehrlingsstelle der Wirtschaftskammer  (Apprenticeship Office of the Economic Chamber; for the address, see certificate)	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b>  Bundesministerium für Arbeit und Wirtschaft (Federal Ministry of Labour and Economy)
<b>Level of the certificate (national or international)</b>  NQF/EQF 4 ISCED 35	<b>Grading scale / Pass requirements</b>  Overall performance: Pass with Distinction Good Pass Pass Fail
<b>Access to next level of education/training</b> Access to the <i>Berufsreifeprüfung</i> (i.e. certificate providing university access for skilled workers) or a vocational college for people under employment. 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.	<b>International agreements</b> 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.
<b>Legal basis</b> 1. Training Regulation for Precast Concrete Technology BGBl. II (Federal Law Gazette) No. 333/2021 (company-based training) 2. Curriculum framework (education at the vocational school for apprentices) 3. The present apprenticeship trade replaces the apprenticeship trade Concrete Production Engineering (Training and Examination Regulation BGBl. II (Federal Law Gazette) No. 192/2009, which expired as of 31 of July 2021.	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE
1. Training in the framework of the given Training Regulation for Precast Concrete 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 <i>Berufsausbildungsgesetz</i> (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.
<b>Additional information:</b>  <b>Entry requirements:</b> successful completion of 9 years of compulsory schooling  <b>Duration of training:</b> 3 years  <b>Enterprise-based training:</b> 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. 333/2021, enabling the apprentice to exercise qualified activities as defined by the profile of skills and competences specified above (cf. job profile).  <b>Education at vocational school:</b> 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.  <b>More information</b> (including a description of the national qualification system) is available at: <a href="http://www.zeugnisinfo.at">www.zeugnisinfo.at</a> and <a href="http://www.edusystem.at">www.edusystem.at</a>  <b>National Europass Center:</b> <a href="mailto:europass@oead.at">europass@oead.at</a> Ebendorferstraße 7, A-1010 Wien; Tel. + 43 1 53408-684

