

1. TITLE OF THE CERTIFICATE (DE)⁽¹⁾
Lehrabschlussprüfungszeugnis Labortechnik – Lack- und Anstrichmittel
⁽¹⁾ in original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)⁽²⁾
Certificate of Apprenticeship “Laboratory Engineering specialising in Varnishes and Paints” (f/m)
⁽²⁾ This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES
<p>Basic and main module:</p> <ul style="list-style-type: none"> • reading and application of technical documents such as regulations related to analyses, formulations, procedural instructions, specifications, diagrams, etc. as well as production of simple sketches of experiments • handling, maintenance and repair of the laboratory devices, apparatus and equipment to be used as well as handling of the chemicals used in laboratories by implementing safety data sheets and the measures and procedures to be derived from them • performance of company-specific sampling including preparation and processing of samples as well as separation processes for mixtures of liquids and solids • production and application of formulations to manufacture semi-finished products and coating substances • measurement of different physical parameters of varnish systems such as of the solid body content, particle size, minimum film-forming temperature, glass transition temperature and flow curves as well as parameters of varnish-specific raw and auxiliary substances such as of the colour index, oil absorption value and epoxy value • pretreatment of substrates for different applications, production of test coatings based on specifications by applying coating substances to different substrates and by drying and hardening coating substances while applying different drying and hardening procedures • appraisal and testing of coatings for parameters such as colour and hue, colour intensity, colour density, covering capacity, degree of drying and gloss level, hardness, elasticity, coating thickness, adhesion, irregularities of surface, resistance against condensation water, weathering and chemicals • operation of the apparatus, machines and devices required for producing coating substances and for the application technology • logging and graphic evaluation of the results of work and their documentation, also by using the company’s IT and statistical methods • performance of work taking into consideration relevant norms as well as quality, safety and environmental standards • appropriate written and oral command of language and specialist terminology as well as use of job-related foreign language <p>Training in the following special module can be attended in addition to the basic and main module, with the aim of acquiring more in-depth know-how and specialisation.</p> <p>Special module laboratory automation:</p> <ul style="list-style-type: none"> • installation, commissioning and testing of automated laboratory systems • installation and configuration of programs and development of simple programs • switching on, switching off and operation of automated laboratory systems • optimisation and implementation of adjustments and changes to automated laboratory systems • systematic search, localisation and elimination of faults, defects and malfunctions on automated laboratory systems as well as their maintenance and servicing • use of laboratory information and laboratory management systems

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE
<p>Range of occupations: Employment including in research, in-house, development and control laboratories of industrial enterprises of the paint and coatings industry, the chemical industry and plastics industry, as well as in development and research</p>

laboratories of universities of technology

(*) Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/614/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> or www.europass.at

5. OFFICIAL BASIS OF THE CERTIFICATE

Name and status of the body awarding the certificate Lehrlingsstelle der Wirtschaftskammer (Apprenticeship Office of the Economic Chamber; for the address, see certificate)	Name and status of the national/regional authority providing accreditation/recognition of the certificate Bundesministerium für Digitalisierung und Wirtschaftsstandort (Federal Ministry of Digital and Economic Affairs)
Level of the certificate (national or international) EQF/NQF 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 <i>Berufsreifeprüfung</i> (i.e. certificate providing university access for skilled workers), a part-time industrial master college or a vocational college for people in employment. Access to 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.	International agreements International agreements on the mutual recognition of professional qualifications have been concluded between Germany, Hungary, South Tyrol and Austria. More information on this topic may be obtained from the Austrian Federal Ministry of Digital and Economic Affairs.
Legal basis 1. Training and Examination Regulation for Laboratory Engineering, BGBl. II (Federal Law Gazette) No. 118/2015 (company-based training) 2. Curriculum framework (education at the vocational school for apprentices) 3. The present apprenticeship trade replaces the apprenticeship trade Chemical Laboratory Engineering (Training and Examination Regulation, Federal Law Gazette II No. 184/2000, as amended by Federal Law Gazette II No. 177/2005), which expired as of 31.05.2015. 4. The apprenticeship Laboratory Engineering has been set up as a modular apprenticeship. Following the basic and main module, there exists the option to provide training in a special module (see 3. profile of skills and competences) or an additional main module. Apprentices can select the additional main module chemistry. Information about the modules is provided in the Certificate of Apprenticeship.	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

1. Training within the framework of the given Training Regulation for Laboratory Engineering 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 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/
additional main modul: 4 years

Company-based training: Company-based training comprises $\frac{4}{5}$ of the entire duration of the training. It aims to provide qualified job-specific skills and knowledge according to Article 3 of the Training Regulation, Federal Law Gazette II No. 118/2015 (cf. the profile of skills and competences specified above).

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, supplementing their company-based training and widening their general education.

More information (including a description of the national qualification system) is available at:

www.zeugnisinfo.at, www.bildungssystem.at and www.bmbwf.gv.at

National Europass Center: europass@oead.at