

1. TITLE OF THE CERTIFICATE (DE) ⁽¹⁾

**Reife- und Diplomprüfungszeugnis der Höheren Lehranstalt für Chemieingenieure -
Ausbildungsschwerpunkt Biochemie und Molekulare Biotechnologie**

(1) in original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN) ⁽¹⁾

**Reifeprüfung-Certificate and VET-Diploma - College of Chemical Engineering
Specialising in Biochemistry and Molecular Biotechnology**

(1) This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES

Graduates of the College of Chemical Engineering Specialising in Biochemistry and Molecular Biotechnology can plan and carry out engineering activities in the areas of chemistry, biochemistry and molecular biotechnology. They can communicate technical and economic matters orally and in writing using subject-specific terms in English.

Graduates have skills and competences in the following technical areas

- biochemical and microbiological working methods in research, development and production
- food technology, pharmabiological, biochemical and genetic research, development and investigation methods
- interpretation of relevant laws and standards
- measurement and analysis methods, measurement results, conclusions, proposed solutions, evaluations, timetables and sequence plans for the realisation of projects in the field of biotechnology, genetic engineering and environmental engineering
- handling of chemicals, devices and apparatuses in various quantities and concentration ranges up to micro- and trace analysis under consideration of toxicological and ecological aspects
- evaluation of results of quantitative chemical analyses, performance of stoichiometric calculations

Graduates have skills and competences in the following economic areas

- company organisation, operational processes under consideration of quality and product management
- cost accounting, bookkeeping, commercial and tax law
- marketing, staff guidance, contracting and financing

Graduates have personal and social skills in the following areas

- interdisciplinary work and activity in management
- problem-solving ability, team skills, creativity, entrepreneurial thinking and acting, customer orientation

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE ⁽¹⁾**Range of occupations:**

Employment in production, research and development, purchasing and sales as well as quality management and operational environmental protection and process engineering in food-producing, biotechnological, pharmaceutical and environmental engineering companies and research facilities.

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

(1) if applicable

(*) 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 2001/613/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.eu.int/> or <http://www.europass.at>

5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Name and status of the body awarding the certificate Educational institution recognised by the State of Austria, address see certificate</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate Federal Ministry of Education, Science and Research</p>
<p>Level of the certificate (national or international) EQF/NQF 5 ISCED 55</p>	<p>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)</p> <p>In addition, the overall performance at the final exam (Reife- and diploma exam) is rated as follows: Pass with distinction, Good pass, Pass, Fail</p>
<p>Access to next level of education/training In accordance with the School Organisation Act (Schulorganisationsgesetz), Federal Law Gazette no. 242/1962 as amended, this certificate entitles holders to attend a university, a post-secondary VET course (Kolleg), and a post-secondary VET college (Akademie); in accordance with the Act on Fachhochschule Study Programmes (Bundesgesetz über Fachhochschul-Studiengänge), Federal Law Gazette no. 340/1993 as amended, to attend a Fachhochschule study programme; and in accordance with the 2005 Higher Education Act (Hochschulgesetz), Federal Law Gazette I no. 30/2006 as amended, to attend a university college of teacher education (Pädagogische Hochschule).</p>	<p>International agreements</p> <ul style="list-style-type: none"> ▪ European Convention on the Equivalence of Diplomas leading to Admission to Universities, Federal Law Gazette no. 44/1957 ▪ Convention on the Recognition of Qualifications concerning Higher Education in the European Region, Chapter IV, Federal Law Gazette III no. 71/1999 ▪ Training completed with this certificate is a regulated education and training programme in accordance with Article 11, point (c) (ii) of Directive 2005/36/EC on the recognition of professional qualifications, as last amended by Directive 2013/55/EU. The level of training corresponds to point (c) of Article 11 of the Directive.
<p>Legal basis National curriculum, Federal Law Gazette II no. 262/2015 current version Regulation on Final Exams at Schools for Intermediate Vocational Education and Colleges for Higher Vocational Education, Federal Law Gazette II no. 177/2012 as amended</p>	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

<p>1. Training and education as defined by the National Curriculum for Colleges of Chemical Engineering Specialising in Biochemistry and Molecular Biotechnology 2. External certification as defined in Federal Law Gazette II no. 362/1979 current version</p>
<p>Additional information</p> <p>Entry requirements: successful completion of school year 8, if necessary entrance examination</p> <p>Duration of education: 5 years</p> <p>Duration of compulsory work placement: 8 weeks in total</p> <p>Educational objectives: Intensive five-year initial training programme in occupation-related practice and occupation-related theory, as well as in general education subjects, technical-scientific and business-related subjects. Independent use of thinking methods as well as attitudes towards work and decision-making which qualify graduates to immediately exercise professions at executive level in the engineering, arts and crafts sector in industry and trade as well as to take up higher studies. 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 approach, creativity and innovation capacity.</p> <p>Subjects include: The subjects taught are listed on the school leaving (examination) certificate</p> <p>More information (including a description of the national qualification system) is available at: http://www.certificate.at or at http://www.edusystem.at or at http://www.bmbwf.gv.at</p> <p>National Reference Point: info@zeugnisinfo.at National Europass Center: europass@oead.at</p>