



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

**Abschlussprüfung / Gesellenprüfung im staatlich anerkannten Ausbildungsberuf
Mechatroniker und Mechatronikerin für Kältetechnik**

(1) in original language

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

**Final examination / journeyman's examination in the state-recognized training occupation
Mechatronics engineer for refrigeration technology**

(1) This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES

- Assemble and commission refrigeration and air conditioning plants, systems and components
- Install electro-technical and electronic plant components Carry out insulation, corrosion protection and fire protection measures
- Programme measuring, control and regulation equipment
- Conduct functional and safety checks
- Maintain refrigeration and air conditioning plants, systems and components
- Optimise refrigeration and air conditioning plants in accordance with economic and ecological considerations
- Disassemble refrigeration and air conditioning plants, systems and components
- Ensure that refrigeration agents, coolants and refrigeration machine oils are recycled or disposed of in an environmentally proper manner.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE (1)

Mechatronics engineers for refrigeration technology mainly work for craft trade sector companies specialising in the installation, conversion and maintenance of refrigeration, air conditioning and heat pump technology plants.

(1) if applicable

(*) Explanatory notes

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: www.europass.cedefop.eu.int/transparency

5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Name and status of the body awarding the certificate</p> <p>Chamber of Crafts and Trades, Chamber of Industry and Commerce</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>Chamber of Crafts and Trades, Chamber of Industry and Commerce</p>
<p>Level of the certificate (national or international)</p> <p>ISCED 3B German Qualifications Framework (DQR) level 4 (alignment is preliminary pursuant to "German Qualifications Framework for Lifelong Learning" - German EQF - Referencing report of 15 November 2012). Published by: Federal Ministry of Education and Research (BMBF), Berlin and Bonn; Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany (Conference of the Ministers of Education and Cultural Affairs - KMK), Berlin)</p>	<p>Grading scale / Pass requirements</p> <p>100-92 points = 1 = excellent 91 - 81 points = 2 = good 80 - 67 points = 3 = average 66 - 50 points = 4 = pass 49 - 30 points = 5 = poor 29 - 0 points = 6 = fail</p> <p>A total of at least 50 grade points are required to pass the examination.</p>
<p>Access to next level of education / training</p> <p>Master craftsman qualification in refrigeration technology</p>	<p>International agreements</p> <p>In the field of vocational training, joint declarations on the comparability of qualifications obtained in the respective vocational training systems have been signed on the basis of bilateral agreements concluded between Germany and France and between Germany and Austria.</p>
<p>Legal basis Ordinance on Initial Vocational Education and Training in the Occupation of Mechatronics engineer for refrigeration technology of 07/20/2007 (Federal Law Gazette, Part I, p 1493) Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany, KMK, of 15.03.2007), (Federal Gazette, No 32a of 27.02.2008)</p>	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Final examination administered by the competent body:

1. after completion of dual training in a company and at part-time vocational school (normal procedure)
2. after retraining in a recognized training occupation
3. as an external examination for working people without formal vocational qualifications or persons who have been trained at full-time vocational schools or other vocational training institutions

Additional information

Entry requirements: Entry requirements are not governed by legislation; as a rule, young people are admitted after completing (nine or ten years of) general education.

Duration of training: 3,5 years.

Training in the "dual system":

Teaching of the knowledge, skills and competences needed for an occupation is based on the typical requirements of work and business processes and prepares the trainees for a specific job. **The training is provided in a company and at part-time vocational school:** In the company, the trainees acquire practical skills in a real working environment. On one or two days per week, the trainees attend part-time vocational school, where they are taught general and vocational knowledge related to their training occupation.

More information is available at:

www.berufenet.arbeitsagentur.de

National Europass Centre

www.europass-info.de