



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

**Abschlussprüfung im staatlich anerkannten Ausbildungsberuf
Werkstoffprüfer und Werkstoffprüferin in der Fachrichtung Wärmebehandlungstechnik**

(1) in original language

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

**Final examination in the state-recognized training occupation Materials tester specialising
in heat treatment technology**

(1) This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCES

- Evaluate the heat treatment capacity of steels, cast materials and non-ferrous metals
- Plan and stipulate work and test processes for heat treatment procedures
- Select heat treatment procedures, e.g. hardening, tempering, quenching and drawing, glowing and surface hardening, with the assistance of technical documentation
- Prepare and carry out heat treatment processes
- Monitor and manage heat treatment processes including subsequent evaluation
- Perform follow-up treatments and authorise heat treatment processes
- Maintain and carry out routine repairs to technical plants and installations Check, calibrate and maintain testing and auxiliary equipment
- Check materials properties before and after heat treatment using destructive and non-destructive testing processes, in particular metallographic, mechanical, technological and analytical procedures
- Analyse and evaluate properties and composition of metal materials, identify any errors in materials
- Record, document, evaluate and present test results, work with English-language documentation
- Analyse the causes of error in heat treatment and develop proposals for the avoidance of error
- Investigate and analyse instances of damage to components and develop proposals for the avoidance of error
- Implement quality management stipulations
- Work as part of a team
- Accord due consideration to health and safety at work and environmental protection regulations.

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

Materials testers specialising in heat treatment technology work for companies in the metalworking industry such as hardening shops, plant manufacturing companies, engineering companies, automobile companies, shipbuilding companies and companies in the aviation and aerospace sector.

(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 Industry and Commerce</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>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>Certified industrial foreman in metalworking, state certified technician in materials technology, state certified materials and test technician</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</p> <p>Ordinance on Initial Vocational Education and Training in the Occupation of Materials tester specialising in heat treatment technology of 06/25/2013 (Federal Law Gazette, Part I, p 1693) Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany, KMK, of 25.04.2013)</p>	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

<p>Final examination administered by the competent body:</p> <ol style="list-style-type: none"> 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
<p>Additional information</p> <p>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.</p> <p>Duration of training: 3,5 years.</p> <p>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.</p> <p>More information is available at: www.berufenet.arbeitsagentur.de</p> <p>National Europass Centre www.europass-info.de</p>