

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

**Abschlussprüfung im staatlich anerkannten Ausbildungsberuf Technischer Produktdesigner/Technische Produktdesignerin - Fachrichtung Maschinen- und Anlagenkonstruktion**

(1) in original language

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

**Final examination in the state-recognized training occupation Technical product designer - specialising in machinery and plant construction**

(1) This translation has no legal status.

## 3. PROFILE OF SKILLS AND COMPETENCES

- Design and construct products and technical goods in accordance with customer specifications
- Prepare 3D/CAD data records and technical documentation according due consideration to construction, design and customer specifications
- Sort auxiliary materials and accessories and use branch-specific materials standards
- Evaluate production, assembly and joining procedures and incorporate results into the forming, design and construction process
- Produce technical support documentation, manage and administer such documentation and carry out specialist manual and software-aided calculations
- Accord due consideration to the basic principles of control technology and electrotechnology
- Select suitable machine elements in the construction process
- Execute construction details
- Plan, organise and coordinate work processes within the construction process taking account of commercial and quality assurance aspects
- Use information and communication technologies according due consideration to data security
- Work in a team, process and project oriented manner using methods for the planning, implementation and monitoring of projects
- Use English language documentation, and correspond and communicate with customers including in English

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

Technical product designers specialising in machinery and plant construction work in development and construction departments at industrial companies, construction firms and engineering services providers, particularly in machine and plant construction, apparatus engineering, ship, vehicle and aeroplane construction and the packaging industry.

(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](http://www.europass.cedefop.eu.int/transparency)

## 5. OFFICIAL BASIS OF THE CERTIFICATE

<p><b>Name and status of the body awarding the certificate</b></p> <p>Chamber of Industry and Commerce</p>	<p><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b></p> <p>Chamber of Industry and Commerce</p>
<p><b>Level of the certificate (national or international)</b></p> <p>ISCED 3B</p>	<p><b>Grading scale / Pass requirements</b></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><b>Access to next level of education / training</b></p> <p>Certified constructor, state certified technician</p>	<p><b>International agreements</b></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><b>Legal basis</b></p> <p>Ordinance on Initial Vocational Education and Training in the Occupation of Technical product designer - specialising in machinery and plant construction of 06/21/2011 (Federal Law Gazette, Part I, p 1215)</p>	

## 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

<p>Final examination administered by the competent body:</p> <ol style="list-style-type: none"> <li>1. after completion of dual training in a company and at part-time vocational school (normal procedure)</li> <li>2. after retraining in a recognized training occupation</li> <li>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</li> </ol>
<p><b>Additional information</b></p> <p><b>Entry requirements:</b> 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><b>Duration of training:</b> 3,5 years.</p> <p><b>Training in the "dual system":</b>          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. <b>The training is provided in a company and at part-time vocational school:</b> 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><b>More information</b> is available at:  <a href="http://www.berufenet.arbeitsagentur.de">www.berufenet.arbeitsagentur.de</a></p> <p><b>National Europass Centre</b>  <a href="http://www.europass-info.de">www.europass-info.de</a></p>