

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

**Abschlussprüfung / Gesellenprüfung im staatlich anerkannten Ausbildungsberuf  
Elektroniker/Elektronikerin für Maschinen und Antriebstechnik**

(1) in original language

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

**Final examination / journeyman's examination in the state-recognized training  
occupation  
Electronics technician for motors and drive technology**

(1) This translation has no legal status.

## 3. PROFILE OF SKILLS AND COMPETENCES

- Analyse customer requirements, design drive systems
- Set up production machines
- Record and catalogue machine and winding data, manufacture windings
- Assemble and dismantle electrical machines
- Install cables and other operating equipment
- Install mechanical, pneumatic, hydraulic, electrical and electronic components, commission electrical machines
- Assemble and wire switch cabinets, including measurement and control equipment, assemble drive systems
- Create, modify and monitor control technology programmes, parameterise frequency converters, commission drive systems
- Systematically identify faults in and repair electrical machines and complex drive systems
- Maintain and monitor electrical machines and drive systems in operational use, carry out remote diagnostics
- Work with English language documentation and communicate in English
- Under the provisions of the Prevention of Accidents Regulations, electronics technicians for motors and drive technology are deemed to be skilled electrical and electronic engineering workers

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

Electronics technicians for motors and drive technology mainly work for craft trades companies in the electrical engineering sector or for companies operating in the electrical 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 Crafts and Trades, 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 Crafts and Trades, 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>Process manager in electrics/electronics, master craftsman qualification in electrical engineering, state certified technician specialised in electro technology, 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 Electronics technician for motors and drive technology of 07/25/2008 (Federal Law Gazette, Part I, p 1490) Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany, KMK, of 16.05.2003), (Federal Gazette, No 12a of 20.01.2004)</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>