

# ELECTRONICS FOR AUTOMATION TECHNOLOGY



TRAINING AND  
JOB PROFILE

## ▶ WHAT DOES A ELECTRONICS TECHNICIAN DO?

### **Build the Automation of Industry 4.0**

Electronics technicians for automation technology analyse functional relationships and process flows from automated systems and design changes or extensions. You install and adjust electrical, hydraulic or pneumatic drive systems. You build measuring, control and regulation equipment. You assemble, configure, program and adjust sensor systems, operating systems, bus systems and networks. You connect the installed components to complex automation equipment which are then integrated in an overall system. In addition, you operate or maintain automation systems for automation technology and maintain it.

Supported by:



on the basis of a decision  
by the German Bundestag

Coordinated & certified by:



## ▶ WHERE DOES A ELECTRONICS TECHNICIAN WORK?

Electronics technicians for automation technology find employment in companies that develop, manufacture or use automation solutions.

## ▶ WHAT'S THE TRAINING CONTENT?

- Operational and technical communication
- Plan and control work processes, check and evaluate work results
- Mounting and connecting electrical equipment
- Measure and analyse electric functions and systems
- Assess the safety of electrical systems and equipment
- Install and configure IT systems
- Advise and assist customers, provision of services
- Technical order analysis, solution development
- Construction of facilities of automation technology
- Configuration and programming of automation systems
- Checking and commissioning of automation systems
- Maintain and optimise automation systems
- Business processes and quality management in the operational area

## ▶ THE 3 MOST IMPORTANT STRENGTHS FOR ELECTRONICS TECHNICIAN:



Fit in math, physics and technical communication



Logical thinking



Technical understanding and craftsmanship

## ▶ TRAINING DURATION & EXAMS

Typically, the duration of German Dual Vocational Training for Electronics Technician is 3.5 years, split up into a rotation of 70% on-the-job training and 30% theory training in a vocational institute.

After around 18 months there will be the first final examination, weighting 40%, and at the end of the 3.5 years, the second final Examination weighting 60%, a combination of written tests, oral and practical tasks, takes place.

## ▶ CERTIFICATES

Upon successful completion of the training and passing of the exams, you will be awarded with a professional certificate by the Association of German Chambers of Commerce and Industry (DIHK) and a Malaysian Skills Advanced Diploma by JPK.