

MECHATRONICS

TRAINING AND JOB PROFILE



▶ **WHAT DOES A MECHATRONICS TECHNICIAN DO?**

A technical all-rounder, ready for Industry 4.0

Mechatronics Technicians build complex mechanical, electrical and electronical components and mechatronic systems, e.g. Robots for industrial production. If you become a Mechatronics Technician you will build individual components and assemble them to systems and production lines. Also, putting the finished production units into operation and installing the software will be among your tasks. You will follow circuit diagrams and design drawings and carefully inspect the systems, before handing them over to the customers. Furthermore, you will maintain mechatronic systems and repair them if necessary.

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▶ WHERE DOES A MECHATRONICS TECHNICIAN WORK?

Mechatronics technician find employment

- in machinery and plant engineering
- in automation technology
- in companies of the vehicle-, air- or spacecraft construction
- in information – and communication technology or medical technology

▶ WHAT'S THE TRAINING CONTENT?

- Company and technical communication
- Plan and control work processes, check and evaluate work results
- Quality management
- Cut, separate and reform manually or by machine
- Install electrical sub-assemblies and components
- Measure and test electrical values
- Install and test hardware and software components
- Build and test control systems
- Programme mechatronic systems
- Assemble sub-assemblies and components into machines and systems
- Assemble, dismantle, secure and transport machinery, systems and plants

▶ THE 3 MOST IMPORTANT STRENGTHS FOR MECHATRONICS:



Skillfulness and eye-hand coordination



Meticulousness



Technical understanding and craftsmanship

▶ TRAINING DURATION & EXAMS

Typically, the duration of German Dual Vocational Training for Mechatronics 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.