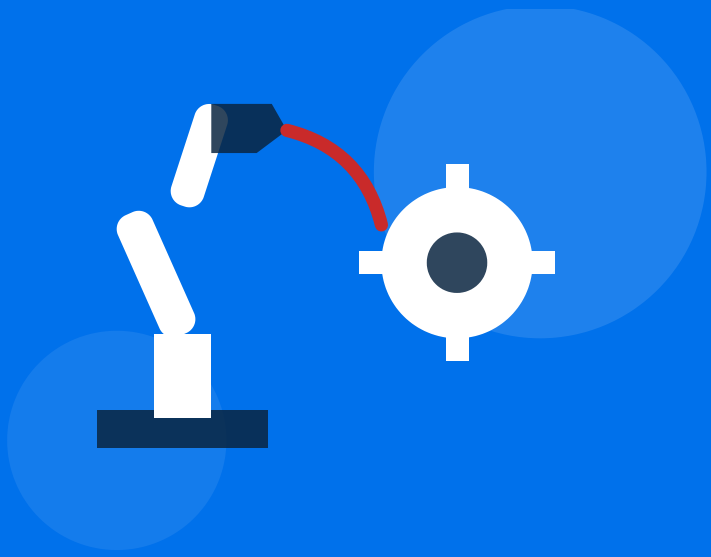
Vocational training in Germany (Ausbildung)

Mechatronics technician (Mechatroniker/in)

Mechatroniker / Mechatronikerin

You assemble, programme and maintain machines that combine mechanics, electrics and IT, such as robots: a paid 42-month training in an industrial company.



LEVEL	DURATION	GERMAN	PAY DURING TRAINING
Baccalaureate	**3.5 years**	**B2**	**€1,224 to €1,472**
required	42 months	required level	gross / month, during the training

We are by your side from day one until you arrive in Germany.

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+49 (0) 7033 694 18 80

CAMEROON
+237 622 20 81 64

www.campus-allemagne.org

Douala office : Rond-point Maetur Bonamoussadi – Nice Cream building (4th floor), opposite the COGENI hardware store, Douala, Cameroon

View the full sheet online

THE OCCUPATION IN 30 SECONDS

What a mechatronics technician does

They assemble mechanical, electrical and electronic components into complex systems, commission and programme them, then maintain and repair them using wiring diagrams and drawings.

Assemble

Check the parts, then build mechanical, electrical and electronic components into machines and plant.

Programme

Commission the equipment, programme it or install the software that controls it.

Maintain

Check systems, trace the cause of a fault, repair it and hand the plant back to the customer.

This occupation is for you if…

- ✓ you enjoy mechanics, electrics and IT all at once
- ✓ you can read wiring diagrams and technical drawings
- ✓ you are meticulous when tracing the cause of a fault
- ✓ you accept working at different sites, sometimes in shifts

Less suitable if…

- – you prefer a single field, for example IT only
- – you struggle with the noise of production halls
- – you do not accept shift work or on-call duty

A TYPICAL DAY IN THE WORKSHOP

07:00 **Team briefing and instructions** : The trainer presents the day's jobs and reminds you of the safety rules, especially electrical ones.

07:45 **Reading drawings and diagrams** : Analyse the technical documents, plan the work steps and prepare tools and parts.

09:00 **Assembling a subsystem** : Assemble the mechanical components, wire them and connect them to the machine's controller.

11:00 **Checks before commissioning** : Verify electrical safety and system functions with measuring instruments.

13:30 **Programming the controller** : Load the program into the PLC, test it and correct the settings.

15:00 **Fault-finding and report** : Locate the cause of a fault on a plant, repair it and document the intervention.

Machine assembly | Wiring and electrical testing | PLCs and controls | System programming | Commissioning | Maintenance and repair | Manual skill | Logic | Caution | Rigour | Teamwork

THE TRAINING

How the Ausbildung works

In Germany you learn by working: this is the “dual system”. You are an employee of a company and a student at a vocational school (Berufsschule) at the same time.

3 to 4 days a week at the company | **1–2 days school**

Year 1

The basics

- Measuring, marking, machining, joining
- Installing electrical components
- Safety and documentation

Year 2

Controls and hardware

- Building controls
- System hardware and software
- Part 1 of the final exam

Year 3

Complete systems

- Programming systems
- Assembling machines and components
- Fitting and removing plant

Year 4 (6 months)

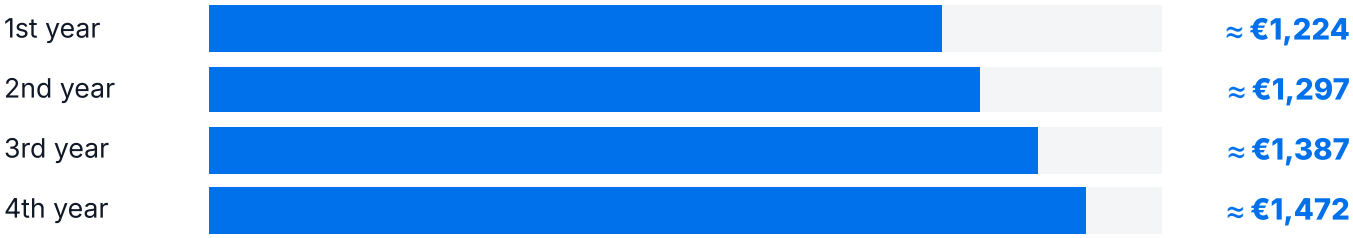
Towards the exam

- Adjusting and testing functions
- Commissioning and operation
- Part 2 of the final exam

Exams and qualification

The final exam (Abschlussprüfung) has two parts. Part 1, before the end of the second year, covers work on a mechatronic subsystem and counts for 40% of the result. Part 2, at the end of training, comprises a work assignment, work planning, functional analysis and economics and social studies. You obtain the IHK final certificate.

YOU ARE PAID DURING THE TRAINING



What you need to apply

- ✓ Baccalaureate level is required.
- ✓ The required level is B2. Good technical vocabulary for the trade is a real plus.
- ✓ The work takes place in noisy workshops and production halls, sometimes on outdoor assembly sites, with protective equipment, sometimes in shifts or on call.

Documents to prepare

- ✓ CV and cover letter in German
- ✓ Translated baccalaureate diplomas and transcripts
- ✓ German B2 level certificate

AFTER THE TRAINING

Where it can lead

STRAIGHT AWAY

Qualified mechatronics technician

Work in machine building, automation, the car industry or medical technology.

WITH EXPERIENCE

Industrial master (Industriemeister)

Take the industrial master's exam in mechatronics to lead a production team.

LONGER TERM

Studies in mechatronics

With university entrance qualification: a bachelor's in mechatronics.

YOUR PATHWAY WITH CAMPUS GERMANY

We are by your side from day one until you arrive in Germany

1

CHECK MY ELIGIBILITY

Take the test online or at the office

The eligibility test is done online on our website, or by visiting our Douala office directly.

2

TALK TO AN ADVISOR

Talk to our team

Germany: **+49 (0) 7033 694 18 80**
Cameroon: **+237 622 20 81 64**

3

PREPARE YOUR GERMAN

DZK, our language centre

Deutschzentrum KAGEDEV (DZK) is our own language centre in Douala. Outside Douala: partner language centres, call us to find the nearest one.

4

GET THE CONTRACT

AZUFA is always us

AZUFA is our platform: it connects you with German companies that recruit apprentices and follows your application through to the training contract.

Douala office

Rond-point Maetur Bonamoussadi – Nice Cream building (4th floor), opposite the COGENI hardware store, Douala, Cameroon

From German A1 to the first day of training in Germany

Each step is run by one of our structures. You keep the same contact from start to finish.

1 — **Check my eligibility**
The test is done online on our website or at our Douala office.
RUN BY CAMPUS GERMANY

2 — **Talk to an advisor**
Review your profile, your wishes and the chosen occupation.
RUN BY CAMPUS GERMANY

3 — **Learn German, from A1 to B2**
Courses adapted to your starting level, up to the required B2 level. In Douala at our own language centre; elsewhere, with our partner centres.
RUN BY DZK

4 — **Prepare the application file**
CV and cover letter in German, translated baccalaureate diplomas and transcripts, B2 level certificate.
RUN BY CAMPUS GERMANY

5 — **Find the company and sign the training contract**
We connect you with German companies that recruit apprentices, and follow your application through to the contract.
RUN BY AZUFA

6 — **Prepare the visa and paperwork**
Support to gather the documents and complete the administrative steps.
RUN BY CAMPUS GERMANY

7 — **Prepare your departure and settling in**
Travel, housing and first steps in Germany: we prepare you before you leave.
RUN BY KAGEDEV E.V.

8 — **First day of training in Germany**
You arrive prepared and supported, with a team that has known you since day one.
RUN BY AZUFA

Contact us

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