Vocational training in Germany (Ausbildung)

Glass apparatus maker (Glasapparatebauer/in)

Glasapparatebauer / Glasapparatebauerin

You make, repair and modify glass apparatus for laboratories and research. A paid 3-year training, in a company and at vocational school.

LEVEL	DURATION	GERMAN	PAY DURING TRAINING
Baccalaureate required	**3 years** 36 months	**B2** required level	**€1,150 to €1,380** gross / month, during the training

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

GERMANY
+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 glass apparatus maker does

A glass apparatus maker builds special apparatus from technical drawings: they heat glass tubes and rods, shape them, then fuse them together and check manufacturing tolerances.

Hot working

Heat glass tubes and rods, then bend, draw, cut or blow them into shape.

Cold working

Cut, grind, drill and mill semi-finished glass and blanks, then fuse the parts together.

Check and repair

Check tolerances and glass stress, repair and modify existing apparatus.

This occupation is for you if...

- ✓ you work with great care on fragile pieces
- ✓ you have the skill to cut, grind or drill workpieces
- ✓ you have good spatial awareness for reading drawings
- ✓ you have a feel for technology to maintain tools and machines

Less suitable if...

- – you do not want to work in a workshop with flames and hot pieces
- – you dislike mathematics, physics and chemistry
- – you are impatient and dislike meticulous work

A TYPICAL DAY IN THE WORKSHOP

07:30 **Reading drawings** : Study the drawing of an apparatus and choose the glass and tools to use for the day's order.

08:30 **Setting up the station** : Set up the workstation, adjust the burner and prepare the glass tubes needed.

09:30 **Hot glass working** : Heat and bend glass tubes, then fuse them to form one part of the apparatus.

11:30 **Cold working** : Cut, grind or drill semi-finished glass pieces with suitable tools.

13:30 **Checking the apparatus** : Measure the dimensions, check the tolerances and inspect the glass stress.

15:30 **Repair and notes** : Repair an existing piece, then note the steps carried out and tidy the station.

Hot glass working | Cold glass working | Reading technical drawings | Fusing glass parts | Measuring and checking | Tool maintenance | Care | Manual skill | Spatial awareness | Technical sense | Patience

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

Glass basics

- Sketches and production drawings
- Planning and preparing work
- Cutting glass, first hot work

Year 2

Glass techniques

- Hot working by hand and machine
- Cold working of glass parts
- Intermediate exam (Zwischenprüfung)

Year 3

Complete apparatus

- Making glass apparatus
- Measuring, checking, repairing
- Final exam (Gesellenprüfung)

Exams and qualification

An intermediate exam (Zwischenprüfung) takes place in the fourth half-year: two practical tasks with a technical discussion, and a written part on glass properties. The final exam has five areas, including making a test piece (a glass apparatus). You obtain the Gesellenbrief (HWK) or the final certificate (IHK), depending on the competent chamber.

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 workshops or production halls, on fragile pieces: it demands skill, precise work and care when heating and cutting glass.

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

Skilled apparatus maker

Work in a scientific glassware company, at a university or a research centre with a glass workshop.

WITH EXPERIENCE

More demanding work

Deepen a field: borosilicate glass, quartz glass or soft glass, depending on the company.

LONGER TERM

Meister or manager

Work towards the Meister (master craftsman) or a crafts business management course.

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

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