

## Mechatronics engineer for air-conditioning/refrigeration

---



Mechatronics engineers for air-conditioning and refrigeration work in companies that build and fix air-conditioning/refrigeration systems in supermarkets, offices, hospitals or other buildings.

### Course contents

What are the different methods of joining components? How do you read assembly drawings and circuit diagrams? These are some of the fundamental questions trainees will deal with at the beginning of their training. In the next stage, they will learn how to make complex air-conditioning and refrigeration machinery and systems ready for operation and how to maintain and repair them. Additionally, they will become specialists on cost-efficient and eco-friendly operation of air-conditioning and refrigeration systems.

Does this description sound good to you? Then you might be interested in a vocational training course in mechatronics engineering. Click [here](#)  (German), to find out more about this profession.

### Special requirements

Working with (flammable) cooling agents demands great care and attention. Mechatronics engineers need to be highly flexible as they will be working on site in different places and environments. However, this also means that you will have a lot of variety in your job. If on top of that you have some mechanical skills and are technically-minded, this will definitely help you master the challenges of this occupation.

### Places of study

This is a dual vocational training course. The theory is taught at a vocational school (Berufsschule), while practical training takes place at a craftsman's workshop or an industrial company.

**Duration:** 3.5 years

### Year of training and pay in Euros (craft business)

1st year 550 - 800

2nd year 615 - 850

3rd year 685 - 950

4th year 745 - 1.050

### Year of training and pay in Euros (industry)

1st year	570 - 853
2nd year	615 - 940
3rd year	670 - 1.000
4th year	720 - 1.050

Pay: gross salary before tax and deductions for social contributions; source: Federal Employment Agency (BA); last update: Februar 2021.

### Sector of activities

- Mechanical engineering and tool manufacture
- Supply and installation
- Food and beverage industry

### Your perspectives after completion

- Employment in a company offering assembly, operation and maintenance/repair of air-conditioning, refrigeration and heat pump systems
- Specialisation as cold storage warehouse operator, assembly technician, service technician, quality inspector or supervisor
- Acquiring additional qualifications such as IT or foreign language skills
- Continuing vocational training to become a master craftsman or fully qualified engineer

### Further information on this profession:

- **Federal Employment Agency** [↗](#)
- **Federal Institute for Vocational Education and Training** [↗](#) (BIBB)
- **beroobi - job porta** [↗](#)

## Information on the web

### Beroobi

Multimedia presentation of occupations requiring vocational training and personal reports from trainees

### Federal Ministry of Education and Research - Praktisch unschlagbar!

Useful links on vocational training

Show more

### Federal Institute for Vocational Education and Training (BIBB)

Profiles of several occupations requiring vocational training