Erasmus+ KA 202 - Strategic partnership for vocational and educational training

Cooperation of innovation and the exchange of good practices

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for virtuelles Museum

TECHnical partNership towards Innovation and Cooperation for VET

Construction mechanic

Professions type	**Occupation requiring formal training**
Kind of education	**Dual training in industry and trade**
Period of traineeship	**3,5 years**
Learning places	**Apprenticing company and vocational training school**

- **Where you work**

  Construction mechanics produce steel and metal structures. For this purpose, they manufacture individual components, for example by means of manual and mechanical methods, e.g. from sheets, profiles or tubes, and assemble them.

- **Constructions mechanics are employed**
  - in workshops
  - assembly and production halls, Construction sites, shipyard facilities
  - in the Steel and metal construction; engineering; Ship, vehicle or rail vehicle construction

Work activities:

These produce metal structures of any kind. First of all, they prepare parts for elevators, cranes, ships or the like during operation to assemble them on the construction site. Finally, they hand over the designs and systems to the customers and assign them to the operation. In addition, the maintenance and repair of the products belong to her area of responsibility. Since the individual components are made not only manually but also by means of mechanical processes, you will be taught during training how to select and set up the machines. You will also learn how to make stencils and reshape sheets, tubes or profiles. The training also provides that you deepen your knowledge and skills in a specific field of application (such as shipbuilding, welding or sheet metal construction). Constructions Mechanics work with computer controlled machines and devices, e.g. with CNC-controlled drilling and milling machines or welding robots. In addition, they use hand tools such as drills, hammers and files, but also some highly sensitive measuring and testing equipment.

What is important?

Requirements:

- Eye-hand coordination (e.g., setting a line of welds)
- Body control (e.g., work at higher altitudes with risk of falling)
- Craft skill (e.g., assembling and disassembling metal structures)
- technical understanding (e.g., Checking electrical components of control technology)

school subjects:

- Physics (e.g. by operation of machines and plants, and use different test methods)
- Work / technic (e.g. by controlling and service of machines and plants; technical drawing)
- Mathematics
- Informatics

Opportunities after training

After their training, construction mechanics work in steel and metal construction companies, mechanical engineering or shipbuilding and vehicle construction.

After completing your training, you will have numerous training opportunities, for example through further education as a master metalworker or as a technician for metal construction technology or mechanical engineering. But if you have a high school diploma, you could also think about a subsequent degree, for example in the fields of design engineering, mechanical engineering or civil engineering.

Source: Federal Employment Agency Germany, BERUFENET – Stand 17.04.2019 | Version 4.79.1e179c-0b77ac.

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