

Subject Didactics in Various Occupational Fields

Sample Course 5: Subject Didactics for Metal Technology, Mechatronics and Electrics

The course introduces advanced didactical concepts, objectives and topics relevant for vocational education in the domain of metal technology, mechatronics and electrical engineering. Within the course one has to decide to either focus on metal technology, mechatronics or electrical engineering.

Content, elements, format and duration can be customised to the respective needs.

Learning outcomes

On completion of the training, participants

- are able to apply didactic knowledge in the vocational field of metal technology, mechatronics and electrical engineering
- are able to develop individual didactical concepts
- are able to plan specific learning sequences using action-oriented methods
- are able to recall the structure, development and methodology of metal, mechatronic technology and electrical engineering training courses
- are able to apply advanced vocational pedagogical knowledge in the context of TVET

Contents

- Specific teaching and learning methods in the field of metal, mechatronic occupations, electrical engineering and their application
- Development and application of advanced didactical concepts in specific teaching scenarios
- Learning situations and learning task types according to action-oriented approaches
- Aims (competences), contents, methods and media for teaching in metal technology, mechatronics and electrical engineering
- Good practice examples

Formats

Virtual format or blended learning format implemented with the following methods:

- Workshop/ seminar
- Online activities
- One-on-one mentoring
- Individual work/ self-learning
- Cooperative work

Language

- English
- German
- Upon request: other languages with interpreters

Target groups

- TVET teachers
- In-company trainers
- TVET experts

Preferably from metal, mechatronic or electrical engineering occupations

Participation requirements

- Previous professional knowledge and
- Teaching experience in the mentioned or related occupational fields

Duration

- 40 h in 1-6 weeks (recommended)

Equipment

- Notebook / PC
- Stable internet connection
- Integrated or external microphone
- Optional: webcam

Certificate

The participants will receive a certificate of participation after successful completion of the course.

Your contact

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