

# Subject Didactics in Technical Occupational Fields

## Sample Course 6: Virtual Reality Course: Project-based TVET in Technical Occupational Fields

The course will bring participants close to what's happening in industry and will help them resolve real-live trade scenarios, while experiencing a new teaching approach.

In the centre of the training is the situated project-based learning approach, which will be practised in the roles of a facilitator and learner. The first-hand experience of this training method will allow participants to better translate project-based methods into their own training context, and will ultimately increase the learning experience and outcome for their learners.

### Learning outcomes

On completion of the training, participants

- are able to apply an advanced didactic method in the vocational field of plumbing and electrical engineering
- are able to collaborate in cross-trade teams
- are able to plan, conduct and reflect action-oriented lessons
- are able to develop teaching and learning media
- are able to tailor teaching processes to expected learning outcomes and conduct according assessments

### Contents

- Fundamentals of the didactics in TVET for plumbing and electrical subjects
- Concepts and application of modern approaches to vocational didactics and methodology with project-method in the centre
- Insights into and practice with Building Information Modelling (BIM) and virtual reality

### Formats

Virtual format implemented with the following methods:

- Live seminars & workshops
- Virtual reality / Building Information Modelling
- Online activities
- Self-learning
- Cooperative work
- Assessments
- Online training with interactive sequences and exchange.

### Language

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

### Target Groups

- TVET teachers
  - In-company trainers
  - TVET experts
- Preferably from plumbing and electrical occupation

### Participation requirements

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

### Duration

- 160 h in 7-11 weeks

### Equipment

- Notebook / PC with up-to-date operating system and hardware (recommended)
- Basic PC and Windows skills
- Stable internet connection (1 Mbps)
- Integrated or external microphone
- Webcam, Speaker and microphone (headset recommended)

### Certificate

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

### Your contact

#### TVET Academy

Academy for International Cooperation  
Deutsche Gesellschaft für Internationale  
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I [www.giz.de/tvet-academy](http://www.giz.de/tvet-academy)

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