

# Innovative Teaching and Learning for Industry 4.0

## Sample Course 1: TVET Management Changes / Consequences for Trainees due to Industry 4.0

The 4th industrial revolution (Industry 4.0) has impact in all our activities in different areas. Disruption is the term used in many cases to describe the changes. This situation requires a deeper understanding of the paradigm change going on in industry and the identification of consequences for our life and the skilled work.

- **Content, elements, format and duration can be customized to the respective needs**

### Learning outcomes

On completion of the training, participants

- are able to explain of the role of value-added chain
- are able to describe the importance of different terms in relation to changes in industry and production
- tell about deep changes in technology and use of technology
- are able to explain the changes of work organization for optimizing efficiency and different use of technology
- state about consequences of the paradigm change for economy, ecology, skill needs, employment and workforce
- identify differences about the impact of different organizational concepts and how to make use of them (esp. "lean concepts") for automation
- are able to explain consequences for TVET

### Contents

- Target of automation and consequences
- Analyse the skill needs related to the organization of work-process
- Deep insight into the interrelation of changes of work organisation, use of technology and the implications for quality
- Able to shape organisation of TVET centres in a human friendly way
- Development of innovative lesson plans related to industry 4.0 (e.g. work with projects)

### Formats

Virtual format implemented with following methods:

- Webinar
- E-Coaching
- One-on-one mentoring

- Individual work/ Self-Learning
- Cooperative work
- Synchronous/ asynchronous
- Online activities

### Language

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

### Target groups

- TVET teachers
- TVET experts
- In-company trainers
- TVET management staff
- Decision makers from relevant ministries, authorities and institutions
- Private sector stakeholders

from all occupational fields and business sectors

### Participation requirements

- Experience in TVET institutions
- One year experience as TVET Manager

### Duration

- 20 hrs (recommended)

### Certificate

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

### Your contact

#### TVET Academy

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