

# PERNER'S CONTACTS

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## TEACHING AND LEARNING PLATFORM POKROK.digital

### Practice-oriented competence development production technology in the regions by cooperation.digital

#### Target, target groups and access overview

Development of cooperation and testing of cross-border cooperation within the web platform for teaching "Planning and management of production processes"

The Learning Platform supports students and teachers at universities and colleges as well as trainees and teachers at vocational schools in Germany and the Czech Republic in developing competencies in planning and controlling the production of machine parts

Fastest gaining of competences should be achieved by providing audiovisual teaching and learning content and feedback from the learning platform through computers as well as personal feedback from teachers.

#### Partners cooperating in the project

##### Technische Universität Dresden

Institut für Berufspädagogik, Berufliche Fachrichtung Metall- & Maschinentechnik

##### Technische Universität Dresden

Institut für Fertigungstechnik, Professur für Formgebende Fertigungsverfahren

##### Technische Universität Bergakademie Freiberg

Institut für Maschinenelemente, Konstruktion und Fertigung, Professur für Additive Fertigung

##### Technická univerzita v Liberci

Fakulta strojní, Katedra výrobních systémů a automatizace

##### Univerzita J. E. Purkyně v Ústí nad Labem

Fakulta strojního inženýrství

SPŠSE a VOŠ Liberec

#### Problem definition and solution approach

##### WHY AND WHAT?

Students in engineering, as well as apprentices, gain too little practical experience during their studies. Even during practical lessons, they can not acquire the necessary skills to operate machines and equipment. In addition, education institutions often lack the necessary training capacity. However, the target groups of this project are involved in professional practice tasks, such as:

- Selection of materials for production tasks and production processes,
- compiling an operating sequence for available machines and devices,
- creating and evaluating variations of the processes involved,
- preparation of the final order,
- short-term decisions leading to the realization and provision of all necessary resources.

##### HOW?

Currently, the apprentice platform takes on the experience of skilled workers and engineers. Studying work processes involves performing specific tasks and acquiring the necessary competencies. Practical work in the form of realistic workpieces, workflows and systems is important for the platform itself. In addition, a wide range of different types of media are available: texts, audio visual sequences, simulations, and more, supporting the mental interconnection of all parts together. Typical teaching and work tasks at different levels of difficulty encourage the development of students' and trainee competencies.



Europäische Union. Europäischer Fonds für regionale Entwicklung.  
Evropská unie. Evropský fond pro regionální rozvoj.



Ahoj sousede. Hallo Nachbar.  
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