

**ComEd**  
**“Development of competences of educational staff by integrating operational tasks into measures of vocational training and further education”**

**Pool of exploration tasks – topics, problem definitions and tools**

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## **1 Background, problems and objectives in the project ComEd**

Vocational training and further education in areas of high-technology as micro- and nanotechnologies require new methods in order of strengthening the part of teachers and trainers. Due to the dynamics of technical-technological developments and a high variety of products, materials and technologies in MNT enterprises the need of educational concepts and offers is different and changes quickly. Considering this situation there are special requirements in order of developing and designing educational processes and developing the competences of the educational staff. In addition to a continuous development of new knowledge from international research it has to be implicated know-how generated in companies in teaching and learning processes as well.

A suitable approach encouraging the development of competences of the educational staff is a stronger implication of exploration tasks aiming on working processes, carried out by apprentices or participants of further education. Explored information about working processes, problems, approaches of solutions and innovative development results are an important potential of learning for teachers and trainers.

Our project deals with a model of integrating exploration tasks in vocational training and further education, which was primarily developed and proved in other German industrial sectors. This model has been adapted in the context of qualifying the educational staff of MNT enterprises and educational service provider (ESP) and transferred to the European partner countries. As a result a model has been further developed on an European scale which includes products fostering European exchange (e. g. pool of operational tasks, handouts and a web based exchange platform for multipliers, teachers and trainers).

Furthermore it was the common effort of all partners to adjust the understanding of vocational training and further education in order to force the economical development in Europe. The partnership which realised the project ComEd, involves educational service provider for companies of MNT. These ESPs have a different institutional background and different focus on professional topics concerning vocational training and further education. ESPs will complement one another and assure a wide consideration of learning content.

**Main objectives of ComEd were:**

- **Strengthening the role of qualified employees** including educational staff within vocational training and further education in the field of MNT in terms of new functions and tasks in conjunction with high dynamic of technical-technological development
  
- **Increasing mobility of apprentices in MNT**  
Actually, apprentices in industrial-technical occupations in mobility projects are comparatively low. For that reason, preconditions for future European mobility projects for apprentices in companies of MNT shall be created simultaneously within the project ComEd

**Target groups of project were:**

- **Education personnel** within vocational training and further education for MNT involved in transfer (teachers, trainers in educational institutions and in SME) and
- based on it, **learners** within vocational training and further education in MNT in all involved countries during proving of concepts and instruments

## **2 Exploration tasks**

In ComEd 47 exploration tasks have been developed.