Filling Skills Gaps in Blue Industry by Radical Competence Boost in Engineering VET
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Benefits of Industry-Higher Education cooperation in Germany and Spin-offs for Europe
Ludger Schneider-Störmann, Study Program Manager Sales Engineering TH Aschaffenburg, University of Applied Sciences, Germany
Ludger.Schneider-Stoermann@th-ab.de
Objectives

- Analyse European academic-industrial cooperation models in (Sales) Engineering degrees
- Create a basis for the development of the new ENGINE model at TUAS
- Only organisational and administrational aspects are subject of this study: the ENGINE model’s pedagogic program is not subject of discussion here
- The content of the new degree remains identical with the existing Bachelor of Engineering in Industrial Management and Engineering
Higher-Education-Industry Cooperation in Germany

- 1970ties: Start of cooperative educational programmes in Germany
  - Dual Study Programs (Duales Studium, Duale Ausbildung)
  - Definition: Cooperative study program with extended internships close to or equivalent to an journeyman’s educational program

- 2006: Start of “Hochschule Dual” in Bavaria
  - Type 1: Associated Study Program
  - Type 2: Dual Study Program
The two Bavarian Programs

3 Years Apprenticeship Program

Journeyman Degree

3 1/2 - 4 Years Study Program

Bachelor Degree
Benefits of Higher-Education-Industry Cooperation in Germany

- The numbers in Bavaria are impressive and speak for themselves.
Benefits of Students and Industry Joining Dual Programs

- **Students**
  - Payments
  - Safety (contract)
  - Motivation
  - Potential first employer well known

- **Industry Partners**
  - More Employees with higher education
  - Safety
  - Saving cost for seeking employees
  - New employee well known and already trained
Reported Benefits

- **Associated Study Program: Two Grades**
- More than 50% of technical UAS Students in Germany receive unlimited employment contracts
  ➔ Indicator for good employability of such students
- Youth unemployment is less for people with tertiary education and industry contact
  ➔ Higher employability of education+industry-cooperation
- Students learn at academic level solving real-world problems at the same time
Summary: Spin-offs

- Different well tested models one can learn from
- Lower youth unemployment rate
- Higher employability
- More academic staff in the industry
- Students can study and get salary at the same time
- “On the job” Bachelor study program
- Associated Study Program: Two Degrees within just five years possible