

Report 2nd Workshop Dual VET Partners in Europe

Oliveto Citra / Buccino, Italy 4 – 7 June 2018

(Only activities with regard to the project)

Monday 4th of June 2018

- **Welcome greetings by the authorities** in the Council Chamber of Oliveto Citra by the Mayor of Oliveto Citra, the Deputy Mayor of Buccino, the principal of IIS Assteas Oliveto Citra and other local political authorities.
- **Submission of statements** on the project by the partners from Germany, the Italian partners from Naples, the partner from Spain and the representative of the participating company Meccanica B.M.R.
- **Visit and presentation of Meccanica B.M.R. company.**
The medium-sized company is equipped with modern cutting machines (CNC controlled), has a fully equipped measuring room with a 3- D- measuring machine and all accessories. The programs for the CNC -machines are generated on site. The workers are good trained by the technical leader of the company. Some of them are former students of the IIS Assteas. The company is able and willing to participate in the training in the dual system. However, the Italian regulations do not provide a training contract with included pay. (see the attached summary of the Dual VET system in Italy)
- **In my opinion** the company is good prepared for dual education in the profession like **industrial mechanic.**

Tuesday, 5th of June 2018

- **Visit IIS Assteas Oliveto Citra** with laboratories activities by students of the Technical Institute of Mechanics, Mechatronics and Energy.
This department of the school is a small one. The students work in little groups on usual drilling and cutting machines. They have one CNC-machine. The program is generated on in a computer room. We also saw the equipment for basic welding and soldering and demonstration equipment for house- and water heater inclusive solar collector.
- **In my opinion** the school is well prepared to start a dual vocational training, but the analysis of school and the ideas generation show a lot of deficits (see attached results).
- **Visit of company ARTES INGEGNERIA, Oliveto Citra.**
The company is specializes in the production of heavy and large silos for the treatment of water and other liquids and peat butchers. For water treatment, differential systems with sophisticated control technology are also produced. All constructions are developed in-house. The company is medium-sized.
The main focus of the work is a) steel deformation, b) welding of large components in different processes, c) mounting and installation of piping systems and the related control and d) construction of control cabinets with built-in control and regulation.

In my opinion there are two possibilities of VET like: **a) industrial mechanic and b) industrial mechatronic.**

The leader of the company said that a dual education will not be possible because of the danger of work. (In Germany there are a lot of companies in which the danger is far higher, nevertheless they have VET!). The workers are trained in the company and have a long employment in the company. Some of the workers were students in IIS Assteas Oliveto Citra.

- **Council Chamber of Oliveto Citra**

Presentation of the school system in Italy and especially the the VET as statistics on labor and ITS formation by the partners from university Neaples.

Presentation of comparison analysis of VET in Italy and Germany (university Neaples and German moderator).

Wednesday, 6th of June 2018

- **Visit of company FEN srl, Calliano**

This company works in the textile sector and produces ties and pants. It is a very modern new medium-sized enterprise. There are workplaces for hand working and a lot of places with ironing machines and sewing machines. The equipment is partly very complicate. The company will grow up to about 150 jobs. In case of failure the technical leader of the company repairs the machines himself. If he cannot remedy the deficiencies himself, a fitter of the manufacturer is requested.

The technics contains mechanic, pneumatic, electro-pneumatic, control systems.

In my opinion there could be VET in **industrial mechanic.**

- **Visit of laboratories activities by students in IIS Assteas Oliveto Citra**

They demonstrate us two old car machines running. The education in car mechatronic is very basic. I do not see a chance of VET in this profession.

- **Council Chamber of Oliveto Citro**

Group work in analysis of school and company as generation of ideas due to the deficiencies that became visible through the analysis. **Please see the attached results.**

Thursday, 7th of June 2018

1. **Council Chamber of Oliveto Citra**

Discussion about possibilities of implementation of a pilot class based on a profession like the German industrial mechanic. In the view of IIS Assteas Oliveto Citra there will be the possibility if the following requirement are fulfilled:

- 4 until 5 companies
- 10 apprentices (1 class)
- 1st year only teaching in school
- 2nd until 5th year 1 half of time company, 1 half of time school

The contents of **Mechanical operator**

1. Machine tools' arrangement and preparation – Assembly and mounting of specific equipment. Recording of operational data and parameters on the machinery. Part programs' uploading on machine tools. Machine tools' operation.

2....Mechanical parts and components processing – Reading, comprehension and interpretation of technical drawings. Processing documentation management. Workpiece processing on the machinery. Loading of semi-processed parts on machine tools. Unloading of finished workpieces from the machinery

3...Total quality management – Dimensional inspections on semi-manufactured and/or finished workpieces. Compilation of quality control documentation. Detection of non-compliances, reporting and notification

4....Working area management – Machinery, equipment and facilities cleansing. (Pre)setting, cleansing, storage, calibration and conservation of tools for shaving removal and measuring instruments. Identification and restoration of worn-out tools. Fault logging and reporting on machinery.

In my opinion the time table of the school (see attached sheet) should be redesigned. This could be the content of the next workshop, as well as work on new teaching methods that focus on holistic learning.

Hannover, 21st of June 2018



Walter Ehrlich

Documents attached