

Innovative VET materials for the professional field of „Mechanical Engineering, Metalworking and Metallurgy“ - 3MVET

Project 3MVET: 2016-1-BG01-KA202-023652



NEWSLETTER 3 - September, 2017

Dear readers,

During the 3MVET preliminary research, one of our key findings was the absence of active cooperation between VET schools and the business during the process of design of theoretical and practical programmes. Hence, the link between those providing the theory and part of the practical skills (where applicable) and those supplying the real work placements to ensure building up professional competencies, is broken, or missing.

In this regard, the key objective of the 3MVET project is to design, develop, test, validate, exploit, disseminate and sustain the following innovative products, such as:

- methodological materials for teachers responsible for the curriculum and syllabus delivered in VET schools and cooperation with companies (to cover vocations in the field of „Mechanical Engineering, Metalworking and Metallurgy“), i.e. 3MVET Teachers' Handbook;
- training materials for company mentors engaged in the delivery and monitoring of work placement activities for apprentices/students (to cover occupations in the field of „Mechanical Engineering, Metalworking and Metallurgy“), i.e. 3MVET Mentors' Handbook;
- matrix mapping expected learning outcomes, acquired by VET students/trainees and labour force (in the field of „Mechanical Engineering, Metalworking and Metallurgy“) through theoretical and practical experiences against a common framework to allow for transnational recognition of knowledge, skills and competencies, i.e. 3MVET Recognition Matrix.

In current and in the next issues of the Newsletter the main features of the 3MVET Handbooks will be introduced. We wish you pleasant and interesting moments in reading it!

NEWS

Second international meeting on 3MVET project in Spain, Zaragoza - Working partnership in action



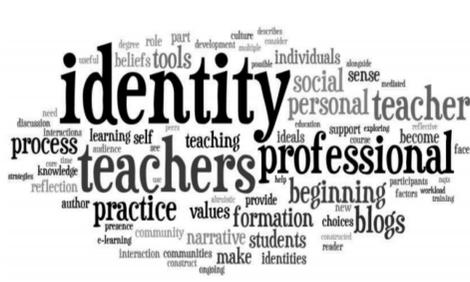
The second international meeting under project 2016-1-BG01-KA202-023652 - "Innovative VET materials for the professional field of „Mechanical Engineering, Metalworking and Metallurgy“ - 3MVET took place in the period 10-12 May 2017 in Zaragoza, Spain

The meeting was hosted by the partners from ITAINNOVA - The Technological Institute of Aragon, Spain. Seven partner organizations from 4 countries participated: Raabe Bulgaria Ltd. – the Project Coordinator, Palfinger Produktionstechnik EOOD - Bulgaria, Vocational High School of Mechanics and Electrotechnics "May 9" - Bulgaria, Klett MINT - Germany, Balikesir University - Turkey, Ortaköy Vocational and Technical High School - Turkey, Somorrostro Vocational Training School - Spain ...

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Teacher's Handbook in the field of Mechanical Engineering, Metalworking and Metallurgy - Innovative materials for teachers are being developed



The main aim of this output of the 3MVET project is to support teachers responsible for the overall delivery of the curricula and the design of the syllabus - allocation of theory and practice across the school year and programme in general

Since the aim is to supply guidance on how to cooperate with the business when performing the above mentioned tasks, the handbook is focusing on the following indicative areas: ...

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The Methodological teacher – education and qualification



A Methodological teacher must have a positive attitude to co-operation and favour teamwork and to be active in the continuance of multi professional education after qualification and graduation

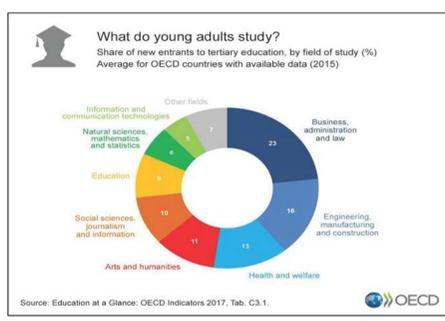
Methodological teachers that work with students of all age groups must develop their education. They are responsible for planning lessons, assigning projects and grading assignments. Educational requirements for teachers depend on the prospective teacher's specialization.

There is a generally widespread consensus among researchers about some of the teaching principles about the education of methodological teachers, and it's the facilitation of learning among students ...

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How do the 3MVET countries compare in the new OECD study on education?



One of 3MVET project aims - to improve the transition from school to work

According to the new OECD study Education at a glance, 40 % of German students in tertiary education choose a STEM subject, which gives them excellent opportunities in the labour market.

Still, the gender gap is large with less than a third of these new entrants being women. Furthermore, the transition from school to work is relatively smooth due to vocational programs for those who don't enter university ...

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Training at Work Award – European Vocational Skills Week 2017



The awards for "Professional training in micro, small and medium enterprises at various career stages" is open for applications until 27 September 2017

Micro-, small and medium-sized companies (SMEs), are the backbone of Europe's economy. SMEs represent 99% of all businesses in the European Union and employ more than 67% of the people in work. These companies are a key to ensuring economic growth, innovation, job creation, and social integration in the European Union ...

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Save the Date – European Vocational Skills Week 2017



The Second European Vocational Skills Week will take place on 20 to 24 November 2017

This first European Vocational Skills Week took place on 5-9 December 2016 with events in Brussels and hundreds of activities in member States, EFTA and EU candidate countries organised at national, regional and local levels. To capitalise on this energy and enthusiasm, we will organise a second European Vocational Skills Week on 20-24 November 2017.

What is it about? ...

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6 Steps of Modern Steelmaking Process



Methods for manufacturing steel have evolved significantly since industrial production began in the late 19th century

Modern methods, however, are still based the same premise as the Bessemer Process, namely, how to most efficiently use oxygen to lower the carbon content in iron

Modern steelmaking can be broken down into six steps:

1. Ironmaking: In the first step, the raw inputs iron ore, coke, and lime are melted in a blast furnace. The resulting molten iron - also referred to as 'hot metal' - still contains 4-4.5% carbon and other impurities that make it brittle ...

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