

## **Project: Development of Web-Based Networks for Vocational Teachers in Montenegro**

### **Final Project Report**

The representatives of the VET Centre and Ministry of Education, financed by the European Training Foundation with technical support of NGO Forum MNE, implemented the project intended for networking of VET teachers within the period 1 January – 15 April 2015.

The goals of the Project were the following:

- Engagement and commitment of vocational teachers to make ongoing use of web-based networks to access and share OERs and other digital instructional materials, e.g. lesson plans, subject content, learning tasks
- Creating networks of teachers that work together
- Empowering teachers to innovate, to motivate others and extend their skills
- Raising the awareness of vocational teachers generally in Montenegro of the opportunities for collaborative learning through the web
- A larger number of Vocational teachers in Montenegro are made aware of the networking project and access the network in order to participate, for example, to view or download materials
- Promotion - Creation, design and printing of informative brochures on how to use the platform

The beneficiaries of the project were teachers of vocational – theoretical subjects and practical training from three occupational fields: tourism, electrical engineering and mechanical engineering. During the project, 4 workshops were held, out of which, the first one was intended for Lead Teachers from the mentioned fields. At the first workshop, 12 Lead Teachers underwent training delivered by ICT experts to use Microsoft Office 365 programme, as a useful tool for networking of teachers and development of teaching material via electronic platform. Also, teachers were informed on how to upload developed material to the portal for teachers ([www.skolskiportal.edu.me](http://www.skolskiportal.edu.me)) so as to make it available to all teachers in Montenegro.

Following initial workshop for Lead Teachers, there were three two-day workshops held for each occupational field (tourism, electrical engineering and mechanical engineering), within which Lead Teachers worked with the trainees on the development of teaching material via electronic platform. During these workshops, attended by around 50 VET teachers in Montenegro, teaching materials were created which will be useful for all teachers in these occupational fields. All project beneficiaries provided their contribution in the creation of materials and demonstrated interest in such form of work.

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The follow-up of the workshops was joint development of teaching materials by the use of available electronic tools. Such form of cooperation has turned out to be interesting and motivating, especially taking into account the fact that teachers were in different locations and managed to cooperate. As envisaged by the Project, the first teaching materials were published at the end of March and available for upload at teachers' portal: [www.skolskiportal.edu.me](http://www.skolskiportal.edu.me). By mid-April, all materials created by teachers from the mentioned occupational fields were uploaded.

The list of developed and published materials in tourism, electrical engineering and mechanical engineering is available at teachers' portal and can be downloaded from the following links:

- <http://www.skolskiportal.edu.me/Docs/Didaktiki%20softver/Forms/AllItems.aspx?RootFolder=%2fDocs%2fDidaktiki%20softver%2fSrednje%20stru%C4%8Dne%20%C5%A1kole%2fTrgovina%2c%20turizam%20i%20ugostiteljstvo%2fTuristi%C4%8Dki%20tehni%C4%8Dar-ka&FolderCTID=&View=%7b97DACFEF-CA2F-44D1-96EF-EFF8D39E6624%7d>
- <http://www.skolskiportal.edu.me/Docs/Didaktiki%20softver/Forms/AllItems.aspx?RootFolder=%2fDocs%2fDidaktiki%20softver%2fSrednje%20stru%C4%8Dne%20%C5%A1kole%2fElektrotehnika&FolderCTID=&View=%7b97DACFEF-CA2F-44D1-96EF-EFF8D39E6624%7d>
- <http://www.skolskiportal.edu.me/Docs/Didaktiki%20softver/Forms/AllItems.aspx?RootFolder=%2fDocs%2fDidaktiki%20softver%2fSrednje%20stru%C4%8Dne%20%C5%A1kole%2fMa%C5%A1instvo%20i%20obrada%20metala&View=%7b97DACFEF-CA2F-44D1-96EF-EFF8D39E6624%7d>

Teachers have developed numerous teaching materials and learning resources, the most important of which are the following:

- Diverse tests comprising assignments and responses. Initial database of assignments for tests was created for the subject *Machine elements* and other related subjects. Tasks were created in four levels of complexity, provided in Word format. The material was also uploaded on One-drive account of one of Lead Teachers. The advantage of storing material in One-drive the possibility of being modified by larger number of teachers. However, the disadvantage is reduced security of data, as they can be easily deleted. The link for editing files may be required via official (school) email from edu.me domain.
- Draft questions for vocational graduation exam were created for the module of agency and hotel operations, as useful materials for lectures in tourism occupational field.
- Within occupational field of electrical engineering, different teaching materials were produced, such as: test samples for various subjects/modules, comprising questions

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and answers, topics for vocational – theoretical paper and guidelines for the creation of vocational – theoretical paper.

Within the final activity, informative brochure was created, designed and printed in 1000 copies and delivered to all VET schools in Montenegro. In this way, VET teachers were ensured the opportunity to familiarize with the activities of the project and possibilities of electronic tools for development of material.

VET schools in Podgorica provided their contribution to this Project by ensuring computer equipped cabinets for the organization of all four workshops.

The project was promoted on the website of the VET Centre and on social networks Facebook and Twitter. Links with the photographs from the workshops, as well as informative texts about the project are provided in workshop-related reports which are published on ETF portal, together with PDF version of informative brochure.

Project manager  
Ivan Marković

Project Assistant  
Ivana Vučinić