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CREATING THE NETWORK OF KNOWLEDGE LABS
FOR SUSTAINABLE AND RESILIENT ENVIRONMENTS
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WB Institution: **Higher technical professional school in Zvečan [HTPSZ]**

Center for training and fire protection services Sustainability plan

Summary

One of the most important global problems and factors of further sustainable development of human civilization is certainly the occurrence of natural disasters and fires. The need for sustainable development imperatively imposes the need for educated experts who will adequately react in the field of fire protection. The study program FIRE PROTECTION - the second-level specialist program was promoted through the Erasmus + project titled "Creating a Knowledge Lab for Sustainable and Resilient Environments-KLABS". Through innovation of an existing study program and introduction of new subjects, students shall have theoretical and practical training in the laboratory - **the Center for Training and Fire Protection Services**, also equipped by funds from the mentioned project. Exactly the equipment in the laboratory, primarily the components for simulation of the fire alarm system operation and the components for the maintenance (filling) of the fire extinguisher, will contribute to the achievement of these goals.

The Center for Training and Fire Protection Services is an integral part of the Higher Technical Professional School in Zvečan.

Organizational structure with position of Center is given in Annex 1.

Center for Training and Fire Protection Services – Goals

The Center for Training and Fire Protection Services will adequately help students to get to know and learn how to apply practical knowledge, which they have acquired theoretically in the framework of the curriculum at the undergraduate and specialist studies. Thanks to this Center, the graduates will be ready to respond to the permanent problems that arise in the environment, which will further contribute to the sustainable solution of serious and accumulated problems in industry, economy and science in our country, regionally and globally.

Apart from the provision of fire protection services to the local community, the Center plans to prepare interested members of the local community for passing an expert exam in the field of fire protection and safety and health at work.

The market that could use the services of the Center is comprised of business entities in the local community, education institutions, schools, preschool institutions, health institutions, local administration and self-government, private companies, etc. By providing services to third parties, the Center would get financial resources for its quality work and improvement of laboratory equipment.

Organizational structure of the Center for Training and Fire Protection Services

The Center for Training and Fire Protection Services is composed of two separate parts:

- Specialized classroom for fire alarm system simulation
- Laboratory for inspection and testing of mobile fire extinguishers and hydrant network testing and maintenance

Equipment

A specialized classroom for fire alarm system simulation is a room with installed model of fire detection and alarm system that can simulate an alarm and fire alarm system. The classroom shall be used by students.

The Specialized classroom has a control panel with the Center for fire alarm, type GLOBAL, installed with other accessories:

- optical detector
- thermal detector
- optical-thermal detector
- manual detector
- outdoor siren.

Laboratory for inspection and testing of mobile fire extinguishers is a functional block containing equipment for inspection and testing of mobile fire extinguishing equipment.

It contains the following equipment:

1. A device for transport of powdery substances (a device for discharging and charging a powder-type Fire Extinguisher) type “C” with powder;
2. Combined system-device for maintenance and testing of type S and CO₂ type FE devices, as well as testing hydrant hoses on CWP (cold water pressure) of all types
3. Caps for bottle inspection of FE devices type S and CO₂ and hydrant hose
4. *Pressure gauges for FE device, type S, that is under constant pressure*
5. *Combined system for the transfer of CO₂ from the packaging bottle into the bottles of CO₂, as well as bottling of the CO₂-type FE devices with CO₂.*
6. *Manual clamp with folding spindles, exchangeable packs and built-in bottle holder for disassembling and installation;*
7. *Set of keys for unscrewing all types of valves;*
8. *Digital scale*

Personnel potential

Organizational structure of the Center for Training and Fire Protection Services consists of employees (teachers, associates, technical persons) at the Higher Technical Professional School in Zvečan.

Operational process and activity of the Center

In the Center, students of undergraduate and specialist professional studies will be able to apply the knowledge acquired within the curriculum of the course from this field, and they will be trained to work in specialized institutions in the field of fire protection.

The Center for Training and Fire Protection Services could provide quality services to third parties in the field of design and services in the field of fire protection, such as:

1. Drafting of normative acts
 - the Master fire protection project
 - fire protection plans
 - preparation of a sanitary plan for fire protection
 - elaboration of fire protection rules with evacuation plans
 - creation of graphic representations of evacuation plans
 - development of a basic training program in the field of fire protection
 - basic training of employees with a fire safety test
2. Maintenance and testing
 - Regular (six month) maintenance of all kinds of fire extinguishers

- Testing on CWP (cold water pressure) of all sorts and types of fire extinguishers
- Measurement of flow capacity, operating and static pressure on Hydrants

Market

Considering that the Higher Technical Professional School in Zvecan is the only higher education institution that educates personnel in the field of fire protection in the north of Kosovo, the established Center will provide services in accordance with the quality policy. The market that could benefit from the services of the Center is comprised of business entities in the local community, education institutions, schools, preschool institutions, health institutions, local government and self-government, private companies, etc.

The current offer in the market for the provision of fire protection services in the territory of Kosovo is small, therefore it is expected that the development of the Center will be progressive and economically sustainable. Employees of the Center will carry out high-level work with their experience, which will reflect in the quality of services provided, as well as the satisfaction of service users, one of the objectives of the Center.

Marketing

The Center will initially focus on winning the local community market, and by later development, the trend will expand into the territory of Northern Kosovo and its surroundings. Provision of quality fire protection services, the center will work on its promotion, and a satisfied customer will be the basis for further market development.

Finance

Provision of services from the scope of the Center's activities will provide significant material financial resources for quality work and improvement of the Center itself. The Center will have special documentation for keeping accounting and financial reports, all in line with the quality policy of the School.

Conclusion

According to the aforesaid and based on the analysis of the market in the North of Kosovo, the need for such Center is imposed and justified. The Center will give great contribution to the local community in order to preserve the quality of the working and living environment and save people, protect objects and property from fire and emergency situations. The local community will get the Center that will be developed as a leading, top level and modern institution of a common European educational area with clearly expressed leadership ambitions in education and science, which will, furthermore, make the Center competitive to other institutions of the same profile, helping in education of students with engineering and managerial knowledge and skills in the field of fire protection.

Annex 1: [ORGANIZATIONAL SCHEME](#)

