

ECO EFFICIENCY RELATED TRAINING COURSES IN SLOVENIAN VET SYSTEM

1. Professional and technical education

Program: Mechanical technician

Course name: Energy efficiency (obligatory, 140 hour)

Guidance objectives:

Pupil shall:

- Learn about the types of energy conversion and their use in energy systems,
- Consider the global impact of energy on economic, economic and political situation in modern society
- Learn about the basic energy processes
- Learn the basic operation of energy facilities
- Recognize and describe the views, schemes and diagrams of energy processes and systems
- Get accustomed to using professional literature
- Learn about methods and devices for measuring energy quantities.

Professional competence:

- apply theoretical knowledge and basic principles in the energy sector for the construction of energy plants, machines and systems,
- exploit the power of different forms of nature and convert it (electricity, heat, energy for technological processes),
- evaluate the potential for development and use of unconventional energy sources,
- use their knowledge to reduce adverse impacts on the environment and human health in various areas of work,
- assess the ecological viability of using various machines, devices and systems,
- measure the basic energy quantities and evaluate the results of measurements.

2. Post-secondary, erroneously called Short tertiary

Program: Electrician

Course name: Energy efficiency and renewables (elective, 5 ECTS)

General objectives

The overall objective of the course are to:

- Be able to synthesize knowledge from various fields
- Create awareness of the limits and dangers of technological development
- Create a global awareness of the impact of electric power on the environment
- Critically evaluate their own practice
- Develop a capacity for high-quality social relationships
- Create tolerant attitude towards other disciplines
- Develop professional responsibility.

Subject-specific competences

In addition to the course the student shall obtain the following generic skills:

- Efficient use of energy
- Implement simpler emission calculations
- Provide reliable and environmentally friendly supply of electricity
- Evaluate potential savings and understand technology solutions for energy efficiency
- Assist in the integration of qualified producers of electricity from renewable energy sources in the electricity system
- Participate in the introduction of combined heat and power with high efficiency.

Source: Institute of the Republic of Slovenia for Vocational Education and Training (CPI),
<http://www.cpi.si/en/>