



Training for Trainers in Vocational Education

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Lifelong learning

“Intellectual growth should commence at birth and cease only at death.”

Albert Einstein

Project

Skill Energy BSR Skill Alliance Energy saving and sustainable Construction in Baltic Sea Region under the PROGRAMME FOR LIFE-LONG LEARNING

Training program – 5 curricula

-4 seminars for SMEs

-1 seminar “Train the Trainer”



TTT Seminar in Gdańsk, 16-17 June 2014

Topics:

- eco-energy building,
- energy efficiency,
- methods of energy saving,
- use of waste for energy purposes,
- prosumer – a new challenge for Poland and optimal use of renewable energy sources.

Train the Trainer Seminar

Target group: lecturers, trainers and consultants from universities, industrial, commerce and handicraft chambers, associations, providers of educational services, etc.

Objective: educating trainers so as they can educate others (SMEs) in scope of the project content; equipping them with pedagogical tools for preparing, conducting and assessing seminars.

Content

Typical seminar consists of:

1. Theoretical content related to the project.
2. Practical part connected with the theory – case studies, practical tasks, experiments.
3. Pedagogical part presenting the methods of knowledge transfer.

TTT in Gdańsk: Theory

1. Renewable energy sources technologies and their application:

- overview of technologies – electric heating and gas pumps,
- solar thermal collectors and cells,
- biomass,
- errors and problems with adequate design of systems of renewable energy sources.

2. Technologies of heat and coolness accumulation as an element increasing energy efficiency in building.

Practice

1. Sightseeing at Hewelianum Centre (educational centre with interactive exhibitions popularizing science):
 - Presentation of premises – restoration of historic buildings with application of renewable energy sources;
 - Hewelianum Centre – presentation of applied heating pumps, cogeneration, ventilation with heat return, energy saving, energy efficiency in historic buildings.

Centrum Hewelianum



Solar cells



Heating pumps



Eco-house model

Practice – cont.

2. Workshop on renewable energy sources, thermal modernization, energy efficiency and energy saving. Case studies:

- One-family and multi-family building,
- School, kindergarten,
- Office building.

3. Workshop on legal and financial aspects.

- Financial instruments for investments in renewable energy sources.

Experiments



The trainer demonstrated thermal conductivity of some building materials. The participants could see how materials behave after being frozen or heated, as well as they could measure the temperature by means of thermal vision cameras.

Pedagogy

- Ice-breaking activities
- Auditory methods, e.g. discussions, lectures, recordings
- Visual methods, e.g. films, tools
- Kinaesthetic methods, e.g. role-plays, group tasks
- Organization of lectures – presentation, tables, charts, etc.
- Group work, brainstorming
- Mentoring
- Best practices, worst case scenarios

Feedback

- *“High quality lectures”.*
- *“More such seminars could be organized”.*
- *“It is a strength of this seminar that the lecturer is a person who works on the topic in practice; interesting examples of good practices were presented, good didactic materials”.*
- *“A lot of theoretical knowledge with a lot of practical experience of the trainer”.*
- *“Clear and understandable presentations, practical examples, experiments”.*

Why is it important?

- Trainers update their knowledge and disseminate it (i.e. in SMEs).
- Participants are promptly able to train, coach and raise qualifications of other people.
- Transferred knowledge is not only theoretical but also practical.
- Trainers obtain skills to engage participants in seminars and transfer knowledge more efficiently (pedagogical part).
- Training program for SMEs may be implemented independently.



Thank you for your attention!