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this ISSUE

1. Synthesis Report Results
2. Learning Outcomes
3. THESEIS VET model
4. 3rd coordination Meeting
5. Next Planned Actions – Events

THESEIS Project Training on Health and Safety for workers in the Environment Industrial Sector

The THESEIS project has been funded in the framework of Lifelong Learning Programme under the action of LEONARDO DA VINCI Multilateral Projects for Development of innovation.
(Grant Agreement reference no 2011-3988/001-001 signed on 11/11/2011).
www.theseis-training.eu

THESEIS partners

- SIGMA Consultants Ltd
- Federation of Industries of Northern Greece
- Hellenic Institute for Occupational Health and Safety
- PREVENT
- Forschungsinstitut Betriebliche Bildung
- Occupational Safety Research Institute
- Finnish Institute of Occupational Health
- Swedish TelePedagogic Knowledge Centre
- Institute Of Environmental Protection National Research Institute
- Umweltcluster Bayern
- SYNTHOS Kralupy
- Regional Development Foundation

Training on Health and Safety for workers in the environment Industrial Sector

1. Synthesis Report Results

The Synthesis report summarized the results of two surveys implemented in all partner countries documenting the demanded qualifications and indentifying the training needs related to Health and Safety issues of workers occupied in the pollution management sector of eco-industry. In the Synthesis report the learning outcomes are designated according the specific training needs of workers occupied in eco-industry sector. In addition, a partner from each country investigated the existence of the National Qualifications Frameworks for the workers in eco-industry sector and documented the qualifications related to H&S issues. The collected information are also used for the designation of learning outcomes, which, then, will be grouped in distinct learning units and be described along the descriptors knowledge, skills and competence.

Data received from individual countries were assessed statistically via arithmetical means achieved in individual thematic areas (A1 – A6) or for individual questions.

The calculation includes only the answers to knowledge-based grades 1-5 or N/A.

The results of the 1st survey show that workers in wastewater sector have to be educated/trained in following areas:

- ✓ the work in confined space (entry permit, procedures for confined spaces),
- ✓ hazardous material, including relevant health protection (protection against physical, biological and chemical contamination including proper use of PPE),
- ✓ all hazards related with extreme working conditions of wastewater operators (threats and their prevention at site-specific working post) and hazardous materials,
- ✓ fire safety/prevention and fire-fighting systems,
- ✓ explosion risks and explosion prevention,
- ✓ appropriate health protection arising from risks, working environment and conditions for wastewater operators.

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Frequently Asked Questions FAQ

Please post your questions either on THESEIS project and/or other issues related to Occupational Health and Safety training, vocational training, etc. by contacting us via theseis e-mail: info@theseis-training.eu.
An expert from the THESEIS working teams will undertake the task to answer the posted question and upload it on FAQs field of THESEIS website.

The results of the 1st survey show that workers in solid waste sector have to be educated/trained in following areas:

- ✓ the work in confined space (entry permit, procedures for confined spaces),
- ✓ hazardous material, including relevant health protection (protection against physical, biological and chemical contamination including proper use of PPE),
- ✓ all hazards related with extreme working conditions of wastewater operators (threats and their prevention at site-specific working post) and hazardous materials,
- ✓ fire safety/prevention and fire-fighting systems,
- ✓ explosion risks and explosion prevention,
- ✓ appropriate health protection arising from risks, working environment and conditions for wastewater operators.

The second survey shows that none partner have found a National Qualification Framework for Eco-Industry and especially in wastewater and solid waste management. None NQF for mentioned areas has been finished in participating countries so far.
In the majority of partner countries national qualification frameworks are planned to be developed or they are under construction.

2. Learning Outcomes

THESEIS Learning outcomes will be described "holistically" within the framework of a coherent description as a matrix, subdivided into individual elements of knowledge, skills and competence. A detailed description of learning outcomes in the form of a matrix has the advantage that it enables a better comparison with the respective national curricula and is more clearly structured with regard to the subsequent assessment of learning outcomes.

3. THESEIS VET model

THESEIS aims at developing an appropriate e-learning training model in the field of occupational Health and Safety of individuals working in the pollution management sector of eco-industry.

The project seeks to determine the knowledge, skills and competences, that the particular workforce needs to acquire. The two target groups of the survey are “Wastewater operators” and “Waste management professionals”. According to the survey, common requirements of education and trainings for these professions are in the fields of:

1) Waste Water Sector
   - ✓ Wastewater Safety Work Procedures
   - ✓ Chemical Hazards
   - ✓ Physical Hazards
   - ✓ Biological Hazards
   - ✓ Fire Safety
   - ✓ Personal Protection Equipment
   - ✓ Confined Spaces

2) Solid Waste Management Sector
   - ✓ Chemical Hazards
   - ✓ Physical Hazards
   - ✓ Biological Hazards
   - ✓ Fire Safety
   - ✓ Personal Protection Equity

THESEIS VET model uses all the necessary learning services made available form the Virtual Community Platform for the preparation of the training courses. The configuration of THESEIS training material has been appointed to an external expert who implement an interactive platform, based on a 3d perspective layout of a realistic plan of a waste water treatment unit with graphic models vector designed on flash technology, thus benefiting on extreme quick loading. The produced deliverable is quite flexible to be used and embed in flash players, browsers, stand alone flash (exe), web sites or even as a part of other multimedia platforms.

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Multilanguage features are incorporated on interface, as well as on updating, for translating with ease by the owner.

The English version of THESEIS VET model is available at the following link: **http://moodle.theseis.euproject.org/?lang=en**

All the training material is available at the platform for translation in all the participating partners' languages. The relative early launch of the Platform was decided and pursuit by the THESEIS project management committee in order to:

- ✓ disseminate the deliverable as early as possible to the THESEIS network, hence to involve as many experts as possible in the upcoming evaluation phase;
- ✓ speed up the translation process. As the training material produced and uploaded, suffices both the content and structural criteria posed at the design stage of the Work Package, it is our intention to proceed with the translation of the material a.s.a.p. in order to further promote the deliverable to the non English speakers.

The final version of THESEIS VET model will contain all the training modules complete with translated contents (theory and diagnostic tests) ready to use on the web.

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An expert from the THESEIS working teams will undertake the task to answer the posted question and upload it on FAQs field of THESEIS website.

4. 3rd coordination Meeting

The 3rd coordination meeting of THESEIS project was realized in Nurnberg, Germany, during January 2013, hosted by the Forschungsinstitut Betriebliche Bildung (f-bb – Research Institute for Vocational Education and Training).

List of participants, meeting's agenda and photos can be accessed in THESEIS website

5. Next Planned Actions – Events

Translation of training material

The contents of THESEIS VET model will be translated in the language of each participated country. (on going)

Validation of THESEIS VET model

The whole development activities will be followed by a separate phase dedicated to pilot trials and evaluation of the new VET model. Pilot testing will allow members of the target audience to try the produced material prior to each full deployment in order to give feedback on its features and functions. The WP-5 will run a series of trials at each of the partner sites to validate the model on a trans-European basis. Each trial site will be set-up so that a representative sample of the specific workforce involving a mix of workers, local unemployed people and students of technical schools will participate in the pilot testing. Experts from the partner institutions who were engaged in the development of the model will be responsible for the coordination of the whole process. This will include contact with the pilot testers, set up of the infrastructure, installation of the online modules and configuration of the system according to the operating requirements. An online forum will be created, via the VCP tool, providing a platform for discussion of topics and elements of the VET model, the contents of the training material and the delivery methods implemented and shared feedback between learners and tutors.

At the end of the training session, the learners will be asked to fill out a survey using an agreed standard evaluation questionnaire.

The assessment will address the learner's perception of the course as well as the extent to which participants, improve knowledge, and increase skill as a result of participating in the learning process.

The training specialists will review the data, conduct follow-up interviews (if necessary) and summarize the results. Then the Lead Partner of the WP-5 will prepare a common evaluation report taking into consideration inputs from each partner. The conclusions will be used by the management of the THESEIS project to make decisions for adaptations and modifications of the learning materials.

The leader of the WP-4 will exploit these guidelines to refine the contents and compile the final version of the THESEIS VET model.

Articles to National Press and Magazines – Presentations to Seminars

Partners will prepare and publicize articles at national press in each partner country. The articles will concern a presentation of the project and the main outcomes achieved, so far. THESEIS dissemination activities will also include presentations to seminars at local and national level.

Next coordination meeting

Next scheduled meeting of the THESEIS partners is the 4th coordination meeting that will be held in Finland, during June 2013. It will be hosted by the Finish Institute of Occupational Health.

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