

GREEN STAR: GREEN skills for enterprises Sustainable Training for Automotive suppliers cluster

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GREEN STAR EVENTS

★ 3rd Transnational Meeting & Focus Group “Integrating Green skills in qualifications” (3-4 November 2014, Chamber of Commerce of Cluj, Romania)

The transnational meeting & focus group in Cluj-Napoca was mainly focused on sharing the results in order to elaborate an approach to the integration of identified competences within the qualifications systems of Partners countries. Mr. Antonius Schröder (University of Dortmund) presented the Training module approach merging the elements from GT-VET with the new ideas and approaches coming from the cluster analysis and the professional green skills research and interviews. The three specific modules developed by GREEN STAR concern the following “green topics”: energy; waste and LCA/LCC (Life Cycle Assessment/Life Cycle Costing). The companies partners of the project gave their feedbacks about the three modules to be integrated from GT-VET, namely: SC Sinterom (Romania) will apply the GT VET module "energy" as it is; Bruss Juntas técnicas (Spain) revised the module "waste" together with FVEM Federación Vizcaína de Empresas del Metal, the main innovation concerns the approach and the integration of compliance with specific laws and quality standards; API Applicazioni Plastiche Industriali (Italy) will apply the module “LCA” developed on the basis of its action plan under implementation to introduce LCA approach into the company processes. The three modules are enough flexible to involve a wide range of professional profiles, although mainly technical dedicated to production and production planning. The training modules for the acquisition of green skills have been then tested (see WP 4 Exploitation) in the VET systems of partner countries by implementing specific Action Plans. Mr. Sainz de Baranda (FVEM) defined the methodology (guidelines) for the elaboration of the Action Plans. Mr. Giorgio Cester (Veneto Region) proposed a strategy to include the green competences into apprenticeships programmes, based on the action plan to be developed in Veneto. At the focus group of the last day took part some public policy makers, companies, apprenticeships practitioners/trainers and experts/trainers of the continuous training (work-based training).



★ Dissemination event in Bilbao

(29 May 2015, Automotive Intelligence Center, Basque Country)

Automotive Intelligence Center in Bilbao, headquarters of the automotive district of the Basque Country and it was an opportunity to disseminate the project's results and to verify the state-of-the-art of the pilot activities tested by the automotive supplier companies (BRUSS, API and SINTEROM) in the three sectors identified by the project (Energy, Life Cycle Assessment and Waste).



★ Conference Eco-innovation and sustainability: Competitiveness, Employment, Skills

(22 September 2015, A.P.I. Spa, Mussolente Vicenza - Italy)

The Final Conference will take place at the headquarters of API Applicazioni Plastiche Industriali, partner of the project, and it will be focused on **“Eco-innovation and sustainability: Competitiveness, Employment, Skills”**. The final results and outputs of GREEN STAR activities will be presented, together with the **publication** “Green skills along the value chain of automotive”.

GREEN STAR RESULTS

★ WP 4 Exploitation

The partnership carried out the WP4 “Exploitation”, one of the most important phases of GREEN STAR project, an experimentation within the frames of Continuing Training and Apprenticeship in partner countries of 3 training modules for the acquisition of "green" skills developed during the project: 1) LCA / LCC (Life Cycle Assessment and Life Cycle Costing); 2) Energy (savings in the production process); 3) waste management (waste reduction / waste / packaging). Based on the methodology provided by FVEM, GREEN STAR partners have drawn up various action plans for the implementation in their respective countries of the modules above mentioned. The testing of the modules for the acquisition of skills "green" in the continuous training of managers and technicians of companies API and BRUSS will be useful to transfer the results to other companies in the supply chain of the automotive sector.

• IN ITALY

Confindustria Veneto SIAV, in cooperation with API and Consorzio Venezia Ricerche, developed a training module on LCA structured in the following four levels of learning: LEVEL 1 (basic information on LCA key concepts such as “life cycle”, “emissions/releases/consumption of resources” and “environmental impacts”); LEVEL 2 (in-depth understanding of the logic behind the LCA, i.e. how materials and energy that we use can have effects/impacts as described through adequate environmental indicators); LEVEL 3 (the meaning of LCA and how it is structured according to the ISO14040-43:2006 standards, and what type of results are obtained); LEVEL 4 (in-depth analysis of the LCA methodology and strategies to use and spread the results of a LCA study, with a special focus on green / green marketing labelling).

The LCA training module was tested by the students of the course "Technician for automation and mechatronics systems" of the Higher Technical Institute of Veneto (ITS Meccatronico) within the Team Working module. The ITS is a “small polytechnic” specialised in mechatronics. Its educational offer is characterized by a high percentage (at least 50%) of training on the job according to specific projects; teaching is mainly based on laboratory work. Two half days of 4 hours (April 28th and May 5th) have been implemented: in the first the basic theoretical principles and their application in a concrete business case were discussed. In the second the topic was the certification procedure.

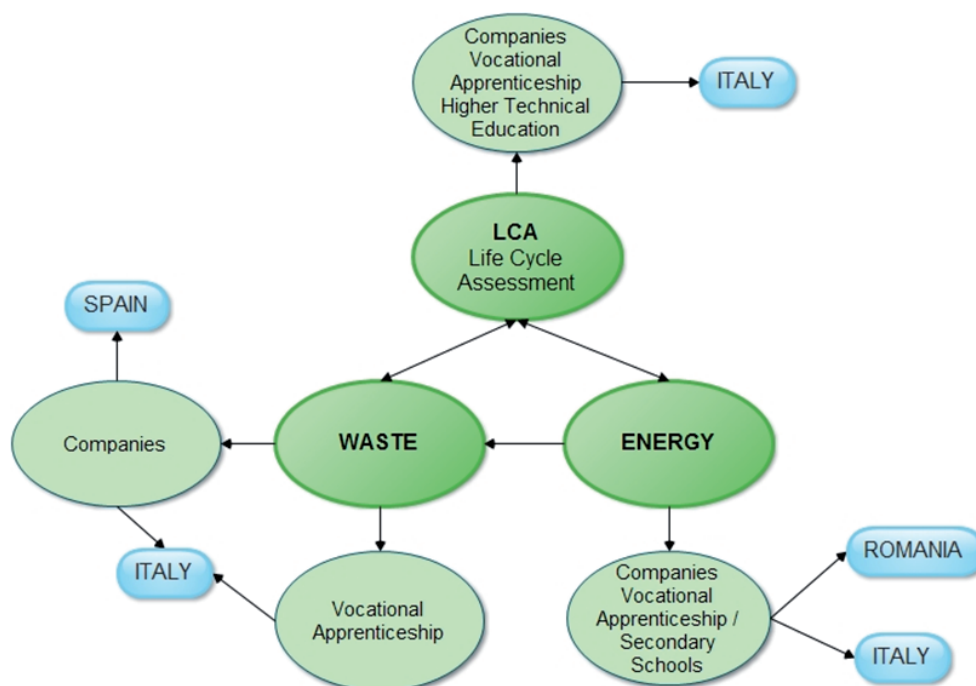
API Industrial Plastic Applications tested the LCA module in the training of managers and technicians of the company. The test has been implemented from October 2014 to May 2015.

FOREMA carried out the testing phase in Veneto (Padua) in the framework of apprenticeship system by including all three modules developed: LCA, Energy and Waste. Within the course on social and civic advanced competences, 8 hours out of a total 40 hours were dedicated to Level 1 and 2. The involved apprentices work for industrial companies located in the Province of Padua and are aged between 18 and 29 years.

Confindustria Veneto SIAV organized information and training seminars for 20 companies lasting 2 hours each from March to May 2015.

• IN SPAIN

The module Waste has been tested in the Basque Country by BRUSS (in cooperation with FVEM). The module was tested at different levels (from the apprentice to the company managers). The company BRUSS Juntas Técnicas, is located in the town of Durango. Their main activity is the design, manufacture and sale of seals and gaskets for sealing engines, gearboxes and other components used in the Automobile Industry.



Scheme of the testing phase (WP4 EXPLOITATION)

Industrial activity involves large and serious impacts on the environment such as climate change, destruction of the ozone layer, biodiversity loss or contamination of air, soil or water. It's essential the proper management of waste in the workplace, besides being a legal obligation, contribute to reduce the environmental impacts of production processes

• IN ROMANIA

The module Energy has been tested in Romania by SC Sinterom, which applied the module GT VET "Energy" to its technical managers and workers. The Chamber of Commerce of Cluj tested the module by involving 190 young people involved in an entrepreneurship programme in North-Western Romania. The modules are enough flexible to involve a wide range of professional profiles, although mainly technical dedicated to production and production planning, such as technicians of products, product development managers, quality assurance profiles, maintenance, locksmith and electricians, energy managers.

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