

Circular Economy Practical Training Materials For Plastics Manufacturing Industries



SUSTAINABLE
CIRCULAR ECONOMY
OF PLASTICS:
WE ALL WIN.

www.circvet.eu

OUTLINE

- Who: The Expert Network
- What: The Objectives and Content of CircVET
- What Next: Register for the Courses
- Why You Should Register

THE EXPERT NETWORK

- AIJU Technological Institute for Children's Products and Leisure (Spain)
- LINPRA Engineering and Technology Industries Association of Lithuania
- CENTIMFE Technological Center for the Mouldmaking, Special Tooling and Plastic Industries (Portugal)
- Kunststoff-Institut Lüdenscheid (Germany)
- POLYMERIS Competitiveness Cluster for Rubbers, Plastics and Composites (France)
- PROPLAST Plastics Innovation Pole (Italy)
- University of Las Palmas de Gran Canaria (Spain)
- Infinitivity Design Labs (France)
- Alytaus profesinio rengimo centras (Lithuania)
- Visagino technologijos ir verslo profesinio mokymo centras (Lithuania)
- University of Trento (Italy)
- The Trentino Innovation Hub Foundation (HIT) (Italy)

BOOSTING INNOVATION



Objectives:

- To develop a new framework and methodology
- To develop the content and materials, structured and ready to be implemented as MOOCS/NOOCs in on-line training, and as class resources for in person training

IDENTIFYING RESILIENCE-RELATED, MARKET NEEDS AND EMERGING PROFESSIONS



Objectives:

- To identify market needs and emerging professions (demand side),
- To enhance the responsiveness of systems at all levels to labor market needs (supply side);
- To adapt higher education and vocational education and training provision to skills needs by designing and delivering transnational sector-wide curricula integrating work-based learning

DEVELOPING NEW TEACHING METHODS AND LEARNING TOOLS



Objective:

- To set a Platform for Interactive Learning and Community Building

BUILDING INCLUSIVE AND CONNECTED HIGHER EDUCATION (HE), VOCATIONAL EDUCATION & TRAINING (VET CENTERS) SYSTEMS AND ENTERPRISES



Objectives:

- To build a better and strong relationship with companies
- To establish a framework for teachers and facilitators to deliver the training
- To provide a micro-credential system that guarantee the knowledge and skills acquired by the Course applicants.

- **TRAINING MATERIALS** that are developed according to **COMPANY'S NEEDS**, covering the whole value chain of plastics in **6 EU LANGUAGES: Lithuanian**, Spanish, Italian, German, French, Portuguese
- Expert knowledge collected and available as **Massive Open Online Course (MOOCs/NOOCs)**
- Ability to learn on your own time on **E-LEARNING PLATFORM:**
<https://project-spaces.eu/circvet/>
- Build strong **LINKS** between **ACADEMIA/VOCATIONAL EDUCATION AND TRAINING CENTRES /COMPANIES**

1. NEEDS EVALUATION PROCEDURE

- Each applicant will do a test to determine their specific needs



2. PERSONALIZED COURSE DEFINITION

- Following the results of the needs evaluation a Course will be defined for each applicant, combining the info and training modules elaborated



3. COURSE APPLICATION

- Each module, as MOOC/NOOC, will transfer the knowledge to the applicant, and this transfer will be evaluated for each applicant



4. CERTIFICATION

- The applicants passing the assessment for each module will obtain an official and recognized certificate

1. General Circular economy understanding – Systemic strategies
2. Eco-design and LCA
3. Digital skills
4. Manufacturing processes
5. Recycling – Upcycling-Downcycling
6. Users and usages
7. Recovery
8. Entrepreneurship



GENERAL CIRCULAR ECONOMY UNDERSTANDING – SYSTEMIC STRATEGIES

Content:

- Presentation and definition of concepts related to circular economy
- Circular economy business models
- Circular economy implementation strategies

Goals:

- General understanding of the different aspects related to materials, manufacturing processes and regeneration of products and materials
- Identification of new business models associated to circular economy
- Strategic and systemic view of circular economy

Learning outcomes (be able to):

- Identify waste as a resource
- Identify recovery processes for energy, materials and spare parts
- Identify different circular economy implementation strategies and business models

ECO-DESIGN AND LIFE CYCLE ANALYSIS (LCA)

Content

- General aspects of eco-design: application to the plastics sector
- Design guidelines of plastic packaging for minimum waste and efficient sorting
- Life Cycle Sustainability Assessment principles and methods (LCA, SLCA, LCC)
- Training with LCA software
- Redesign based on LCA results
- Environmental product declaration, eco indicators and certification
- End of life scenarios of plastics

Goals:

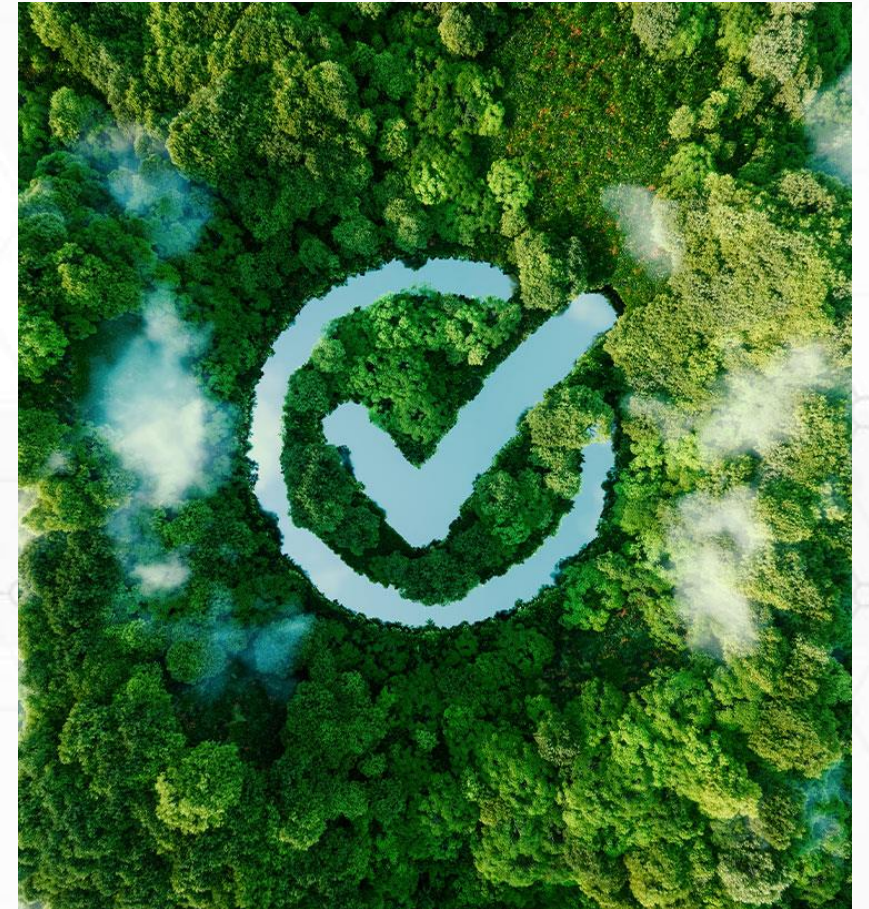
- General understanding of:
- Methodologies, techniques and tools of product design and redesign based on knowledge of eco-design, life cycle sustainability analysis and their regulations within the European framework, in the context of circular economy
- End of life scenarios of plastic products

Learning outcomes (be able to):

- Understand the basic concepts of eco-design and LCSA, as well as their methodology and applicable regulation
- Use software for the study of LCA and subsequent application in practical exercises
- Apply the eco-design methodology in practical exercises
- Redesign products based on LCA results
- Identify the most suitable end of life scenario for plastic products

WHAT NEXT: REGISTER FOR THE COURSES

- The 2 topics will be available **in Lithuanian** at the beginning of **March**
- Register to learn
- Register on e-platform
- Start learning!



WHY YOU SHOULD REGISTER

- Opportunity to learn from the industry experts
- Learning course is specifically focused on Circular Economy of plastics
- Learning course is developed according to the needs of plastic manufacturing companies
- Learn on your own time
- Develop skills that are on demand
- Develop talents within the company



Register for the Course!

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CIRCVET

CIRCULAR ECONOMY PRACTICAL TRAINING MATERIALS
FOR PLASTIC MANUFACTURING INDUSTRIES

Thank you!

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