



Common borders. Common solutions.

Knowing Circular Economy in Black Sea Basin



TRAINING PROGRAMME CIRCULAR ECONOMY

Common borders. Common solutions.



Project BSB1021 BSB-CIRCLECON

Knowing Circular Economy in Black Sea Basin

European Neighbourhood Instrument Cross-Border Cooperation

Training Programme CIRCULAR ECONOMY

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INTRODUCTION

The training course CIRCULAR ECONOMY is part of the project [“Knowing Circular Economy in Black Sea Basin” \(BSB – CIRCLECON - BSB 1021\)](#), which is being carried out under the EU-funded Joint Operational Programme “Black Sea Basin 2014-2020”.

The programme of the course contains 6 (six) training modules for asynchronous online learning:

- Life Cycle of Raw Materials, Materials and Products
- Waste Management
- Business Models For Circular Economy
- Legal and Institutional Framework of the European Union
- EU Environment Policy
- Sustainable Finance.

INFORMATION ABOUT THE TRAINING

1. LIFE CYCLE OF RAW MATERIALS, MATERIALS AND PRODUCTS

1.1. General description:

This module presents knowledge about the theory, problems and possibilities of the product life cycle, with the aim of sharing, borrowing, reusing, repairing and recycling the input materials for the longest time. The topics in the sub-modules address issues related to: environmental management, concept of life cycle of raw materials, materials and products, concept of life cycle analysis; the main types of natural resources, application, energy sources and alternative solutions; opportunities for a closed cycle of production and generation of secondary products from waste material or product, recovery, zero-waste technologies, greening of production.

This course aims to comprehensively adopt the EU model of Circular Economy, to inform about the prevention, reduction and management of waste, to give deeper knowledge in the problems and possibilities of the reasonable use of nature, concept of life cycle of raw materials, materials and products, nationally and globally. The course focuses on environmental issues, the life cycle of raw materials, materials and products, the concept of life cycle analysis, as well as ways of processing and recovery.

1.2. Objectives of the training:

This module provides knowledge about:

- Basic concepts, classification and properties of raw materials, materials and products;

- Characteristics of different raw materials;
- Life cycle analysis concept;
- Basic standards and methods for processing raw materials and materials.

1.3. Expected learning outcomes:

By the end of the module, the participants will be able to:

- To independently search and process information related to the composition of products and the management of specific waste;
- To search and analyze the potential of different types of materials/waste as secondary raw material and thus the related problems and opportunities for treatment and/or utilization, in order to achieve a sustainable society;
- To offer solutions for opportunities for closed loop production, to reduce the harmful impact of waste, zero waste and environmental footprint.

1.4. Format:

Online training.

1.5. Learning methods:

Asynchronous online learning.

2. WASTE MANAGEMENT

2.1. General description:

This module presents a deeper understanding of waste management issues and opportunities from a national and global perspective. Both industrial and domestic waste are affected. The course uses a holistic view of solutions as well as some technical aspects, based on the life cycle of raw materials and products. The topics in the sub-modules concern questions about physical and chemical characterization of waste; the different types of waste, waste classification, waste flows; causes of the waste problem and strategies to minimize these problems; consumption and waste; waste hierarchy - MSW; developing products and technologies to solve problems; basic waste treatment methods; working with hazardous waste; legal framework in waste management.

This course aims to comprehensively adopt the EU Circular Economy model, to inform about waste prevention, reduction and management, to give a deeper knowledge of the problems and opportunities of waste management at national and global level. The course focuses on the problems of individual types of widespread municipal solid waste to be treated and has a comprehensive view of waste management solutions, as well as ways of their processing and recovery.

2.2. Objectives of the training:

This module provides knowledge about:

- Basic concepts, classification and properties of waste;
- Characteristics of different types of waste;

- The various possibilities (methods, processes, techniques and technologies) for the utilization and disposal of various wastes;
- Basic regulations for waste management, which guarantees a clean and safe environment.

2.3. Expected learning outcomes:

By the end of the module, the participants will be able to:

- To independently search and process information related to the management of specific waste;
- To search for and analyze the potential of different types of waste as secondary raw material and thus the related problems and opportunities for treatment and/or utilization, with the aim of achieving a sustainable society;
- To offer solutions to reduce the harmful impact of waste by preventing its formation and promoting its reuse.

2.4. Format:

Online training.

2.5. Learning methods:

Asynchronous online learning.

3. BUSINESS MODELS FOR CIRCULAR ECONOMY

3.1. General description:

The circular economy concept allows us to focus on the problem of resources and how they are used and managed in a business context. Our current linear economy is largely based on a “take-make-dispose” model that uses more resources than our planet can provide and causes pollution of our natural environment. Governments are introducing changes that are guiding economies towards a transition to a circular economy and a more sustainable future. In this way, enterprises are increasingly relying on the principles of the circular economy and new business models are emerging.

This course provides competencies on, on understanding the core of business models and innovating and design them towards more circularity on the opportunities that can be gained from closing, slowing and narrowing loops, on principles and design of circular business models, their typology and application with collaboration of other stakeholders, on how key strategies for circular business models can contribute to the circular economy transition.

The current module will present:

- What is a business model
- How to design a business model
- The concept of sustainable business models
- Principles and strategies of circular business models and their classification and application.

3.2. Objectives of the training:

- Raise awareness about circular economy principles and business models for circular and sustainable business;
- Increase the knowledge level about the application of circular business models and theoretical perspectives in circular businesses across different contexts;
- Gain understanding about how innovation processes can transform businesses and industries towards a circular economy.

3.3. Expected learning outcomes:

By the end of the module, the participants will be able to:

- Analyze the opportunities and challenges of circular business models and its significance for business in different contexts
- Understand and critically assess foundations of circular business models within and across different sectors
- To identify and evaluate innovative opportunities for value-creation from applying circular economy principles within and across different sectors.

3.4. Format:

Online training.

3.5. Learning methods:

Asynchronous online learning.

4. LEGAL AND INSTITUTIONAL FRAMEWORK OF THE EUROPEAN UNION

4.1. General description:

The European Union (EU) is a unique actor in the international stage. The EU has an important role in world politics and the global economy as the largest trade block, the biggest import market and exporter of manufactured goods and services. The EU environment policy is focused on planet Earth problems and possible resolutions including by promoting the circular economy concept. This course provides basic knowledge on EU Law that helps for advancing the sustainable development goals for a better future of Europe.

The current module will present:

- History of the EU
- EU Treaties
- Membership, aims and values of EU
- Citizenship and EU Charter of Fundamental Rights
- EU Legislation
- Competences of EU
- Institutions and bodies of EU
- Decision-making process

4.2. Objectives of the training:

- To introduce the basics of law of EU
- To give knowledge on key principles of EU law
- To explain the mechanism of the EU law system.

4.3. Expected learning outcomes:

By the end of the module the participants will be able to:

- To identify the types of EU legislation
- To analyze the functions of the EU institutions
- To understand the decision-making process in the EU.

4.4. Format:

Online training.

4.5. Learning methods:

Asynchronous online learning.

5. EU ENVIRONMENT POLICY

5.1. General description:

The European Union (EU) has developed some of the strictest environmental standards in the world. EU Environment Policy seeks to minimize risks to climate, human health and biodiversity and plays a crucial role in supporting the European Green Deal that aims to make Europe the world's first climate-neutral continent by developing a modern resource-efficient economy with cleaner sources of energy and green technologies.

The current module will present:

- Legal basis, origins and development of the EU Environment Policy
- General principles
- Environment action programmes and strategies of EU
- International environment cooperation
- Basics of EU environment law.

5.2. Objectives of the training:

- To introduce the basic framework of EU environment policy
- To give knowledge on key principles
- To explain the implementation of the EU environment law.

5.3. Expected learning outcomes:

By the end of the module, the participants will be able to:

- To identify the goals of EU environment policy;

- To analyze the role of the EU in international environment cooperation;
- To understand the implementation of the EU environment law.

5.4. Format:

Online training.

5.5. Learning methods:

Asynchronous online learning.

6. SUSTAINABLE FINANCE

6.1. General description:

Achieving the Sustainable Development Goals (SDGs) and reducing emissions envisaged by the Paris Agreement requires huge private and public investments. According to the United Nations Environment Programme Finance Initiative (UNEP FI), the amount required is between US\$ 5-7 trillion a year, including investments in infrastructure, clean energy, water and sanitation, and agriculture. It is already evident that the finance sector is prepared to meet this challenge. As a result of the changing economic and financial environment the interest of different shareholders to sustainable finance has grown and it reflects their demand for training on sustainable finance and understanding their historical development, their nature and scope, the regulations in the regard to sustainable finance, the benefits that could be achieved dealing with new financial strategies and the green financial products.

The current module will present:

- The core of sustainable finance and how they contribute to the achievement of net-zero goal and sustainable development
- Who are the key actors for the financing of circular economy
- The ESG approach in business
- EU regulations and actions in the field of sustainable finance
- Different sustainable finance products.

6.2. Objectives of the training:

- Explain the potential contribution that sustainable finance can make to achieving the Sustainable Development Goals and the goals of the Paris Agreement on Climate Change;
- Describe the concept of sustainable finance and the possibilities for financing circular businesses;
- Acquire with the regulations of EU, considering sustainable finance package and ESG reporting;
- Learn about the different classes of sustainable finance' financial instruments.

6.3. Expected learning outcomes:

By the end of the module, the participants will be able to:

- Analyze the opportunities and challenges of sustainable financing and its significance for business in different contexts
- Understand and critically assess investment strategies in realm of sustainable finance
- Identify and evaluate innovative opportunities for financing new or existing circular business models.

6.4. Format:

Online training.

6.5. Learning methods:

Asynchronous online learning.

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