GREENBRIDGE Syllabus

Course on Green Skills – 1.3 Green Skills for Sustainable Development

General description of the course

This course equips VET educators with the knowledge and tools to identify, teach, and integrate green skills into vocational training programs. Green skills such as energy efficiency, waste management, recycling, renewable energy, and sustainable production are increasingly vital as industries adapt to the European Green Deal and the twin transition toward greener and digital economies.

While student interest in green skills is strong, familiarity remains low, and employers across the Western Balkans emphasize the gap between VET curricula and labour market needs. This course responds to that challenge by preparing VET educators to embed green competencies into their teaching, align training with employer demands, and inspire students to pursue sustainable career pathways.

Learning outcomes

By the end of this course, VET educators will be able to:

1. Identify essential green skills relevant to different sectors of the labour market.
2. Explain the importance of green skills for sustainable development and the twin transition.
3. Integrate green skills into vocational training programs and classroom practices.
4. Use case studies to demonstrate successful applications of green skills in the workforce.
5. Develop teaching strategies that increase students' awareness, motivation, and confidence in applying green skills.

Structure and content of the course

Module 1: Identifying essential green skills across the labour market

The aim of this module is to build educators' understanding of what green skills are and why they matter. The module explains the concept of green skills, distinguishing between sector-specific skills (e.g., renewable energy, eco-construction) and cross-cutting skills (e.g., resource efficiency). It explores how green skills are transforming professions across industries such as energy efficiency, waste management, recycling, renewable energy, and sustainable production methods, while reviewing findings on local labour market needs and employer expectations. Methods for monitoring emerging trends, consulting employers, and linking green skills to vocational subjects are introduced. The European Sustainability Competence Framework (GreenComp) will also be presented as a key reference for integrating green skills into teaching and training.

Subtitle 1.1: Defining green skills

Subtitle 1.2: Labor market trends and demands**,** green skills in the Western Balkans

Subtitle 1.3: Educators' role in skill identification

Module 2: Integrating green skills into vocational training

The aim of this module is to provide educators with practical tools for embedding green skills into teaching. The module presents possible strategies for integrating green competencies into existing courses without adding workload, with a focus on experiential and active learning methods such as project-based learning, simulations, and problem-solving tasks. It explores how digital tools can support sustainability in VET. Practical approaches are offered to address common challenges, including limited materials, teacher training needs, and student misconceptions. Key thematic areas include energy efficiency, waste management, recycling, renewable energy, and sustainable production methods.

Subtitle 2.1: Curriculum integration, teaching approaches and methodologies

Subtitle 2.2: Synergies between green and digital skills

Subtitle 2.3: Overcoming barriers

Module 3: Case studies – successful green skill applications in the workforce

The objective of this module is to demonstrate the real-world relevance of green skills through practical examples. The module focuses on thematic areas like energy efficiency, waste management, recycling, renewable energy, and sustainable production methods, allowing VET Educators to get acquainted with emerging jobs in those sectors as well as practical case studies.

Subtitle 3.1: Emerging green jobs in energy efficiency, waste management, recycling, renewable energy, and sustainable production

Subtitle 3.2: Sectoral case studies in energy efficiency, waste management, recycling, renewable energy, and sustainable production

Subtitle 3.3: Student projects for applied learning

Learning and teaching activities

- Self-paced online learning with provided materials; including text, images and AI-generated videos
- Sessions with lecturers to introduce the new material
- Discussions (Training session with lecturer)

Schedule and duration of the course

	Training session with lecturer (physically or online)	Independent learning / Self-learning
Module 1	1 hour	30 min
Module 2	1 hour	30 min
Module 3	1 hour	30 min
Total:	3 hours	1 hour and 30 min

Evaluation methods

- Self-assessment questionnaire will be provided after each module including single choice-answer questions.