Co-funded by the European Union

Green Bridge

GEENBRIDGE Syllabus

Course on Digital Skills - 2.2 Digital Technologies for the European Green Deal

General description of the course

Digital Technologies for the European Green Deal

This course enables participants to evaluate and integrate suitable digital solutions that advance the European Green Deal. Participants will learn to interpret basic operational information and key indicators, and practise presenting clear, actionable messages to stakeholders.

Learning outcomes

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

1. Interpret operational data and key performance indicators (KPIs) related to the European Green Deal to identify patterns, outliers, and opportunities for sustainability improvements.
2. Evaluate and select enabling digital technologies for greener practices based on clear criteria, including purpose, interoperability, and implementation effort.

Structure and content of the course

Module 1: Understanding the European Green Deal

In this module, participants will build a foundational understanding of how data relates to the European Green Deal. They will learn to work with key sustainability indicators, practice reading operational data to spot significant patterns and anomalies, and develop a critical approach to data validation to avoid misinterpretation.

Topic 1.1
Key Indicators of the Green Deal and the Twin Transition: Define and understand the key performance indicators (KPIs) relevant to sustainability, such as resource consumption and energy efficiency. Introduce the concept of the EU's ‘twin transition’ (green and digital) and discuss how digital technologies are essential for achieving European Green Deal objectives.

Topic 1.2

Data Interpretation for Sustainability: Develop practical skills for reading operational datasets to identify meaningful trends, patterns, and significant outliers that signal risks or opportunities.

Topic 1.3

Contextual Analysis and Sense-Checking: Learn to apply critical thinking to data by considering the operational context, performing sense-checks, and avoiding common pitfalls of data over-interpretation.

Module 2: Enabling Digital Technologies for Greener Practice

In this module, participants will survey the digital tools and technologies that support sustainable operations. They will learn to recognize the main categories of enabling technologies and apply a structured set of criteria to evaluate and select the most suitable options for a given context, considering purpose, ease of use, and basic privacy implications.

Topic 2.1

Case Studies of Green Digital Technologies in Action: Explore real-world examples of how digital tools support sustainability across key VET sectors. Examples of case studies which can be included are: using IoT sensors for precision agriculture, applying data analytics to reduce energy consumption in manufacturing, and implementing digital platforms for waste management in construction.

Topic 2.2

Criteria for Technology Selection: Define and apply a simple evaluation framework for choosing digital tools based on purpose, ease of use, interoperability, and basic privacy considerations.

Topic 2.3

Planning for Implementation: Assess the practical effort required to implement a chosen technology and formulate a clear justification for its selection based on the evaluation criteria.

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.