

Sustainability Microcredential

25 hours | Self-Paced | 100% Online (D2L Brightspace) | STEM Professionals and Students



KEY LEARNING OUTCOMES

Align with United Nations Sustainable Development Goals (SDGs)

Explain how science, technology, engineering, and mathematics (STEM) practices address environmental, economic and social challenges

Lead Ethically

Make informed judgments considering the global impact of technical solutions

Evaluate Sustainable Designs

Assess designs to protect public health, safety and welfare as well as meet cultural needs

Integrate Practice

Investigate embedding sustainability into organizational structures and STEM fields

LEARNING EXPERIENCES

- Knowledge Checks & Assessments
- AI-Guided Reflection Checkpoints
- Industry-Based Case Studies
- Current Issues Analysis
- Accumulative Reflections
- Practical Resources
- Optional Deep-Dive Readings

COST & ACCESS

Individual: \$550 per learner

Group Perks: Discounted pricing for 10+ learners

Access: 12 months to complete + 6 months reference

Credential: Earn a Microcredential to showcase expertise

COURSE ROADMAP

1 | **Intro to Sustainability** 120 min
Scope, history, STEM role

2 | **Sustainability Science** 185 min
Climate risks, nature-based solutions, resilience

3 | **Renewable Tech & Infrastructure** 240 min
Solar, wind, green building

4 | **Assessing Sustainability** 190 min
Life cycle assessments and triple bottom line

5 | **Designing for Sustainability** 120 min
Product design, impact, social equity

6 | **Systems Thinking** 210 min
Holistic problem-solving for complex global challenges

7 | **Ethics and Legality** 120 min
Standards, legal standing, ethical decision-making

8 | **Future of Sustainability** 95 min
Cutting-edge trends and adapting to challenges

9 | **Sumative Assessment** 60 min
Key concepts and frameworks

READY TO EXPLORE?

Visit abet.org/sustainability-microcredential to learn more or register for the Sustainability Microcredential course