

Carbon Capture, Utilization and Storage (CCUS) for Renewable Integration

COURSE OVERVIEW

This course explores the technical, economic, and policy frameworks surrounding CCUS, with a focus on its integration into renewable energy systems to enhance grid stability, reduce emissions, and enable large scale deployment of clean energy solutions. It provides participants with an in depth understanding of how CCUS technologies can play a pivotal role in accelerating the energy transition. Participants will gain insights into carbon capture processes, storage methods, utilization pathways and how CCUS can complement renewables in achieving net zero targets.

WHO SHOULD ATTEND?

Energy professionals, environmental managers, policymakers, researchers, engineers, and decision makers in the oil and gas, power, and renewable energy sectors. It is also highly relevant to sustainability consultants, project developers, and regulators seeking to deepen their expertise in carbon management and renewable integration strategies.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Explain the fundamentals and applications of CCUS in renewable energy integration.
- Evaluate the technical and economic feasibility of CCUS projects.
- Assess storage and utilization options in line with global best practices.
- Understand the role of CCUS in supporting energy security, decarbonization, and climate targets.
- Apply knowledge to design or influence CCUS-enabled renewable energy projects and policies.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Comprehensive overview of CCUS technologies and renewable integration.
- Case studies on global and regional CCUS projects.
- Practical insights into regulatory and policy frameworks.
- Discussions on economic models, risks, and financing options.
- Interactive exercises and scenario planning for CCUS deployment in renewable systems.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded