

Carbon Capture, Utilization & Storage (CCUS) for Sustainable Energy Futures

COURSE OVERVIEW

This course explores the science, technology, policy and business aspects of CCUS as a critical pathway toward achieving net zero emissions and energy transition goals. Participants will gain an extensive understanding of the principles of carbon capture technologies, methods of carbon utilization for industrial applications and strategies for safe and effective long term storage. The course also highlights global case studies, emerging innovations and the role of CCUS in shaping resilient, sustainable and low carbon energy systems.

WHO SHOULD ATTEND?

The course is designed for energy professionals, engineers, policy makers, sustainability managers, researchers and stakeholders in the oil, gas and power sectors who are engaged in or planning to engage in carbon management initiatives. It is also suitable for academics, investors, and business leaders seeking to understand the opportunities, risks and strategic implications of CCUS in the evolving energy landscape.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the fundamentals of CCUS technologies and their role in decarbonization.
- Evaluate different capture, utilization, and storage methods for technical and economic viability.
- Analyze global policies, regulatory frameworks, and market drivers influencing CCUS adoption.
- Identify opportunities for integrating CCUS into industrial and energy value chains.
- Apply lessons from case studies to assess project risks, challenges, and success factors.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Comprehensive coverage of CCUS technologies and applications.
- Practical insights from real-world projects and case studies.
- Exploration of policy, regulation, and financing models for CCUS deployment.
- Interactive sessions on innovation, future trends, and sustainable pathways.
- Networking opportunities with peers and industry experts.

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