

OIL AND GAS | OG-047

# Carbon Capture, Utilisation and Storage (CCUS)

## Contact

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## Address

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# Course content

## Why Attend

Carbon capture, utilisation and storage is expected to play an important role in decarbonising heavy industry, power and the oil and gas sector. Oil and gas companies bring relevant skills in subsurface, wells, pipelines and large projects, making CCUS a major growth area.

This Aractech course covers capture technologies, CO2 transport, geological storage, monitoring and verification, utilisation options, regulation, project economics and business models. Participants evaluate CCUS project concepts and understand the technical and commercial risks involved.

## Course Methodology

- Technical lectures
- Project case studies
- Economic evaluation exercises
- Risk workshops
- Group presentations

## Course Objectives

- Explain the role of CCUS in decarbonisation
- Describe capture technologies and their applications
- Understand CO2 transport and storage
- Plan monitoring, measurement and verification
- Evaluate CCUS economics and business models
- Understand regulation and risk management

## Target Audience

- Engineers moving into energy transition projects

# Course content

- Subsurface professionals
- Project and business development managers
- Sustainability professionals

# Course outline

## Detailed course outline

Day-by-day outline for Carbon Capture, Utilisation and Storage (CCUS).

### Day 1 - CCUS Overview

- 09:00-09:39 | Climate context and role of CCUS
- 09:39-10:18 | CCUS value chain
- 10:18-10:57 | Global projects
- 10:57-11:00 | Policy drivers
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Policy drivers (continued)
- 12:05-12:43 | Challenges
- 12:43-14:00 | Exercise: CCUS opportunity mapping

### Day 2 - Capture Technologies

- 09:00-09:39 | Post-combustion capture
- 09:39-10:18 | Pre-combustion and oxy-fuel
- 10:18-10:57 | Industrial sources
- 10:57-11:00 | Direct air capture
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Direct air capture (continued)
- 12:05-12:43 | Costs and performance
- 12:43-14:00 | Case study: Capture project

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### Day 3 - Transport and Storage

- 09:00-09:39 | Pipeline and ship transport
- 09:39-10:18 | Storage in saline aquifers
- 10:18-10:57 | Depleted fields and EOR
- 10:57-11:00 | Site selection
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Site selection (continued)
- 12:05-12:43 | Well integrity for CO<sub>2</sub>
- 12:43-14:00 | Exercise: Storage site screening

### Day 4 - Monitoring and Utilisation

- 09:00-09:39 | Monitoring, measurement and verification
- 09:39-10:18 | Leakage risk
- 10:18-10:57 | CO<sub>2</sub> utilisation options
- 10:57-11:00 | Life cycle assessment
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Life cycle assessment (continued)
- 12:05-12:43 | Certification
- 12:43-14:00 | Workshop: MMV plan

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### **Day 5 - Economics and Regulation**

- 09:00-09:45 | CCUS economics
- 09:45-10:30 | Business models and hubs
- 10:30-11:00 | Carbon pricing and incentives
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Carbon pricing and incentives (continued)
- 11:45-12:30 | Regulatory frameworks
- 12:30-13:15 | Public acceptance
- 13:15-14:00 | Capstone: CCUS project concept

# Seminar dates

## Available seminar dates

Live dates and pricing for Carbon Capture, Utilisation and Storage (CCUS) generated from the course details page.

| Date                  | Location  | Format    | Fee    |
|-----------------------|-----------|-----------|--------|
| 9 - 13 November 2026  | Barcelona | Classroom | €2,815 |
| 9 - 13 November 2026  | Istanbul  | Classroom | €1,978 |
| 14 - 18 December 2026 | Frankfurt | Classroom | €1,875 |
| 14 - 18 December 2026 | Vienna    | Classroom | €3,225 |
| 18 - 22 January 2027  | London    | Classroom | €2,315 |
| 15 - 19 February 2027 | Munich    | Classroom | €3,225 |
| 15 - 19 March 2027    | Madrid    | Classroom | €3,400 |
| 19 - 23 April 2027    | Istanbul  | Classroom | €1,978 |
| 17 - 21 May 2027      | Rome      | Classroom | €3,460 |
| 21 - 25 June 2027     | Istanbul  | Classroom | €1,978 |

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|------------------------|---------------|---------------|--------|
| 19 - 23 July 2027      | Vienna        | Classroom     | €3,225 |
| 16 - 20 August 2027    | Istanbul      | Classroom     | €1,978 |
| 20 - 24 September 2027 | Vienna        | Classroom     | €3,225 |
| 18 - 22 October 2027   | Barcelona     | Classroom     | €2,815 |
| 15 - 19 November 2027  | Paris         | Classroom     | €3,825 |
| 20 - 24 December 2027  | Frankfurt     | Classroom     | €1,875 |
| 9 - 13 November 2026   | Online / Live | Online / Live | €1,815 |
| 9 - 13 November 2026   | Online / Live | Online / Live | €1,815 |
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