An introduction to carbon capture and storage (ccs)

Intended audience

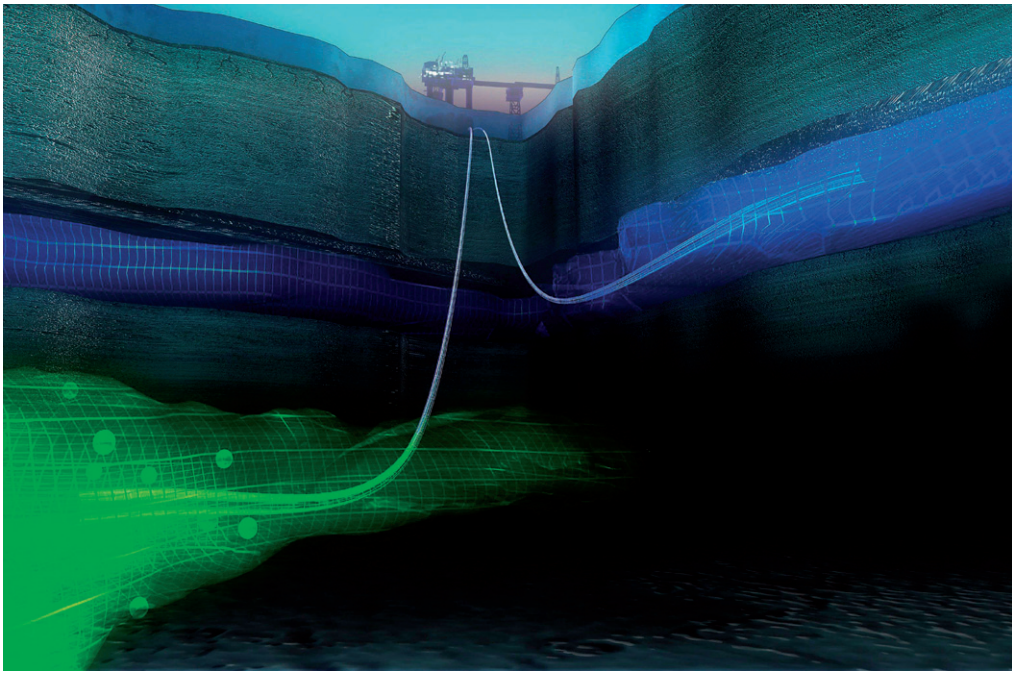
The course is particularly recommended for consultancies, regulators, power and energy companies with an interest in carbon capture and storage (CCS). This course will also benefit anyone with a geological background interested in learning how their skills can be applied to the expanding research field of CCS. The course can be adapted to suit the background and level of geological knowledge of the attendees.

Course objectives

- To introduce the concept of carbon capture and storage (CCS) and its potential contribution reducing carbon dioxide (CO_2) emissions.
- To provide participants with an understanding of what makes a good site for storage and the mechanisms for trapping CO_2 underground.
- To provide participants with an awareness of the tools and methodologies used for assessing the suitability of sites for underground storage of CO_2.
- To provide participants with an awareness of how CO_2 may be monitored in the subsurface.
- To outline the potential risks of CO_2 storage and potential mitigation strategies.

Course description

The course will be delivered as a series of lectures, exercises and case studies. The emphasis of the course is to give an overview of CCS with the focus on geological storage of CO_2, using real case studies and cutting edge research results. The lectures will introduce real geological examples of potential and existing CO_2 storage sites The exercises will guide the trainees through essential aspects of assessing CO_2 storage potential of geological sites.



Carbon capture and storage at the Sleipner gas field, North Sea. © Alligator film/BUG/Statoil.

Course duration

1 day

Delivery mode

Classroom-based course

Course fee

£450

Course fee based on delivery at BGS's training centres

Date(s)

As required

Location

The course is available at BGS's Nottingham (Keyworth) or Edinburgh training centres, or at customer premises, worldwide, by arrangement