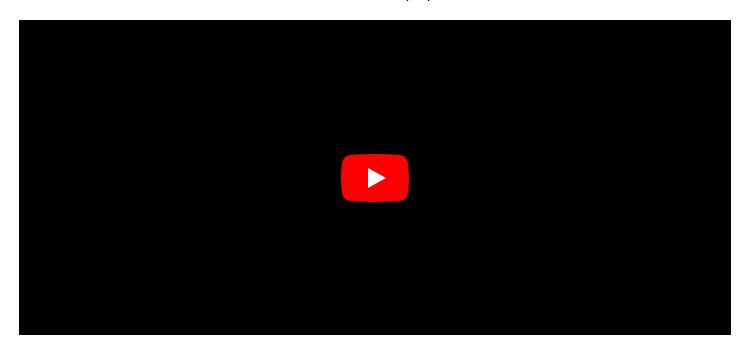**PetroSkills**

The Case for Carbon Capture and Sequestration

MODULE

About the Skill Module

In this eLearning course, we will explore why Carbon Capture and Sequestration (CCS) is a necessary technology in the race to reduce greenhouse gases. A high-level discussion on climate science, how the natural global carbon cycle works, and the role of manmade CO2 emissions. We will examine what makes up greenhouse gases, which ones are important from a climate perspective, and where they come from. We explore what "net zero" means, why it is essential, and the role of CCS in achieving net zero. The course wraps up with a high-level discussion of the CCS steps of capture, transportation, and storage, the context of size, how CO2 and emissions are measured, and the basic properties of CO2.

See example NetZero eLearning module

Target Audience

Designed for technical or non-technical audiences, including engineers, geoscientists, finance, accounting, and operations professionals who want a basic understanding of the project life cycle, the fundamentals of CO2 capture and technology readiness, and transportation options.

You Will Learn

- Define Carbon Capture and Sequestration (CCS)

- Explain why CCS is part of the world's clean energy portfolio
- Explain how carbon emissions impact climate through the carbon cycle and greenhouse effect
- Describe how CCS helps to mitigate the effects of CO2 emissions in Earth's atmosphere
- Identify the elements of a CCS project
- Identify CCS as a method of reducing carbon emissions with the potential to reduce climate change
- Explain the difference between CCS and CCUS
- Explain how CCS aligns with today's energy economy
- Recognize CCS as one of several key solutions in the world's emerging clean energy portfolio
- Describe the carbon cycle and why human-made emissions disturb it
- Describe the greenhouse effect and explain its impact on climate
- Interpret recent data on climate and emissions

Product Details

Categories: Energy Transition

Disciplines: Carbon Capture, Storage, and Sequestration

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 2 hours (approx.)

$250.00