Training - CO2 Geological Storage for Geoscientists and Reservoir Engineers

CO2RES-EN-P | Face-to-face only | 3 days

This course provides participants with a practical knowledge on CO2 geological storage and also a clear understanding of the techniques and steps (evaluation, characterization, modeling, injection and evolution) related to CO2 geological storage

Level
Skilled

Public
Geoscientists, geologists, geophysicists, petrophysicists and reservoir engineers

Objectives
Attendees will be able to implement the following skills:

- Understand the techniques relative to CO2 geological storage
- Develop a clear understanding of the evaluation, characterization, modeling and evolution through time of a reservoir for CO2 storage
- Find solutions in assessing a potential reservoir for CO2 geological storage

Pedagogical & technical resources
Interactive presentations, practical exercises and hands-on activities

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites
No prerequisites are necessary to follow this course

Responsable
IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION TO CO2 GEOLOGICAL STORAGE

Reasons to make a CO2 geological storage.
Types of different reservoirs or geological formations that can store CO2.
Technical barriers for CO2 geological storage.
Issues and concerns in assessing a potential site and reservoir.
Challenges for a stable CO2 storage through time.

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TECHNICAL WORKFLOW FOR CO2 GEOLOGICAL STORAGE

Data gathering and assessment.
Evaluation of parameters to define a potential site.
Characterization of the reservoir for CO2 storage and its uncertainties.
Drivers to define the best geological formation and rock properties needed.
Modeling the geology in a 3D Model for CO2 geological storage.
Modeling the fluids, dynamic interaction and well injection for CO2.
Modeling of the CO2 dynamic evolution through time inside the reservoir & its behaviors change.
Conclusion regarding all these steps for assessment and modeling.

LESSONS LEARNED & FUTURE FOR CO2 GEOLOGICAL STORAGE

Examples of successful and unsuccessful worldwide cases CO2 storage.
Defining conditions and innovative solutions for a successful long-term CO2 storage.
Future improvement for CO2 geological storage.
Others considerations out of geology and engineering.
Wrap-up session.

Sessions

Rueil-Malmaison - From 06/01/2026 to 06/03/2026 **3390 €/HT**

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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