

Training - Introduction to Reservoir Characterization



INFORCM-EN-P



Face-to-face only



5 days

This course provides a comprehensive overview of the reservoir characterization and modeling workflow. Over one week, participants examine the key concepts and methodologies involved in constructing a static geological model. The course offers a solid conceptual foundation that can be applied within industry-standard modeling environments

Level

Awareness

Public

Geoscientists and reservoir engineers involved in multidisciplinary teams, willing to widen their knowledge in reservoir modeling

Objectives

Attendees will be able to implement the following skills:

- Recognize the techniques and challenges related to reservoir modeling (focus on reservoir properties)
- Build required competencies for reservoir geoscientists to analyze a specific dataset and construct a reliable static model

Pedagogical & technical resources

The course combines interactive lectures aiming at understanding the principles and workflow involved in developing a 3D geological model.

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

Responsible

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

0.5 day

Basic principles of reservoir characterization.
Working with scale.
Overview of the geomodeling workflow.

STRUCTURAL MODELING

1 day

Structural modeling concepts.
Gridding techniques (Pillar grid & volume-based approaches).

PROPERTY MODELING: DATA PREPARATION AND ANALYSIS

0.5 day

Data distribution analysis.
Blocking well data.
Vertical proportion curves (VPCs).
Stationarity concepts.

PROPERTY MODELING: DETERMINISTIC AND STOCHASTIC APPROACHES

1 day

Deterministic methods review.
Kriging techniques.
Variogram modeling.
Sampling effects.
Simulation vs. estimation.

PROPERTY MODELING: DISCRETE AND CONTINUOUS PROPERTIES

1 day

Facies modeling.
Fault seal analysis.
Petrophysical property modeling.

VOLUMETRICS AND UPSCALING

0.5 day

Volume calculation.
Upscaling to the reservoir simulation grid.

UNCERTAINTY ANALYSIS

0.5 day

Methods and workflow for uncertainty analysis.

Sessions

Rueil-Malmaison - From 10/19/2026 to 10/23/2026

3650 €/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