# 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

## 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 — 0.5 day

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

### SRUCTURAL MODELING — 1 day


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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


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