

Training - Reservoir Engineering



RESENG-EN-P



Face-to-face only



64 days

This course provides a comprehensive practical knowledge of fundamental concepts of Reservoir Engineering, through hands-on activities, case studies and projects

IFP Training Certificate

Graduate Certificate

Level

Skilled

Public

Newly hired or 2-3 years experienced reservoir engineers, for geoscientists, petroleum engineers and production engineers

Objectives

Attendees will be able to implement the following skills:

- Describe reservoirs characterization and modeling workflow
- Discuss fluids properties and describe the PVT modeling process
- Discuss principles of well testing and well test interpretation
- Discuss the mechanisms of primary recovery and secondary recovery and their performance
- List main Enhanced Oil Recovery methods and discuss mechanisms and performance
- Discuss fundamentals of reservoir management and describe reservoir monitoring techniques
- Define the concepts of resources, reserves and corresponding classification, integrating risks and uncertainties
- Discuss fundamentals of dynamic reservoir simulation, and build a simple black-oil reservoir simulation study

Pedagogical & technical resources

- Numerous hands-on and workshop on real data sets
- Individual and teamwork to develop autonomy and ability of decisions
- Final teamwork workshop on optimizing an oil field development project integrating real data, field data
- Software used during workshops: with courtesy of Beicip-Franlab, Kappa Engineering and Schlumberger

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

PART 1: FUNDAMENTALS OF RESERVOIR GEOLOGY

15 days

Introduction to reservoir characterization.
Petrophysics - Reservoir properties from cores & logs evaluation.
Reservoir modeling workshop.

PART 2: FLUIDS, WELLBORE INTERFACE & WELL PRODUCTIVITY, WELL TESTING

15 days

Reservoir fluid properties.
Drilling and completion - Wellbore interface and well productivity.
Well testing and well test analysis.

PART 3: RESERVOIR DRIVE MECHANISMS & RESERVOIR MANAGEMENT

15 days

Drive mechanisms - Enhanced Oil Recovery.
Reservoir management.

PART 4: RESERVOIR SIMULATION & FINAL DEVELOPMENT PROJECT WORKSHOP

19 days

Dynamic reservoir simulation.
Final teamwork workshop - 2 weeks of hands-on workshop focused on optimizing an oil field development project integrating real laboratory data, field data and simulation model.

Sessions

Rueil-Malmaison - From 09/14/2026 to 12/11/2026

41430 €/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