Training - Basin Assessment and Modeling

BAM-EN-P

Face-to-face only

65 days

This course provides a comprehensive, practical knowledge and know-how of basin exploration, analysis & modeling workflow, via hands-on activities, case studies for play assessment and prospect definition

IFP Training Certificate

Graduate Certificate

Level

Skilled

Public

Geologists, geophysicists and reservoir engineers, with 1 to 3 years of experience involved in basin analysis and prospect generation

Objectives

Attendees will be able to implement the following skills:

- Have a clear comprehension of analysis methods and techniques applied to basin exploration
- Interpret and integrate a dataset to build a coherent model for prospect definition
- Contribute to the reduction of uncertainty and risks, and optimize investments

Pedagogical & technical resources

- Hands-on activities and simulations on real cases
- Emphasis on practical work to develop participants' autonomy and appropriate decisions
- Both personal and group work, team-building, group discussion in results and workflows
- Software tools used in the petroleum industry
- Software used during workshops: with courtesy of Beicip-Franlab 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, including final project at the end to simulate operational situation to be presented to a jury

Prerequisites

Knowledge in geosciences

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

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INFORMATION

Lectures, hands-on activities and case studies are distributed all along the program.
Training content presents a clear operational orientation in order for participants to get familiar with specific techniques via an extensive exposure to simulations on real cases allowing them to anticipate the problems they will have to cope with later in their own projects.

PART 1: EXPLORATION BLOCK MANAGEMENT — 15 days

Introduction to Basin Exploration
Play assessment: From basin analysis to exploration opportunities.
Prospect generation and evaluation: from single to multi-prospect portfolio.

PART 2: EXPLORATION TECHNIQUES & BASIN MODELING — 20 days

Structural geology: impact on petroleum system development and maturity.
Well logging, qualitative and quantitative log interpretation.
3D seismic interpretation workshop (structural & stratigraphic).

PART 3: SEQUENCE STRATIGRAPHY & BASIN MODELING — 15 days

Sedimentology and sequence stratigraphy workshop.
Stratigraphic modeling (basin architecture and sediment distribution).
Basin modeling (thermicity, maturation and migration).

PART 4: FINAL PROJECT WORKSHOP — 15 days

Exploration for prospect generation workshop.

PROJECT REPORT DEFENSE & JURY

The training program ends with a project on a real case. Participants are involved in a simulated situation and their mission is to summarize, integrate and apply acquired knowledge. Each team will present final results of a project to a jury.

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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