Training - Mature Fields - Subsurface Issues

MATFILD-EN-P | Face-to-face only | 5 days

This course provides a comprehensive and practical understanding of methods and issues related to the reevaluation of mature hydrocarbons fields (brown fields) in order to optimize the production and increase the reserves

Level

Knowledge

Public

Geoscientists, reservoir engineers, petroleum engineers and asset managers involved in managing and optimizing mature fields

Objectives

Attendees will be able to implement the following skills:

- Discuss and apply the principles of reservoir management; learning how to conserve the reservoir energy, implementing the proven strategies, applying the energy (advanced) technologies for field development
- Discuss and apply the economical criteria and procedure for selecting a development plan

Pedagogical & technical resources

- Interactive courses and exercises
- Various case studies allowing to apply the principles of reservoir management

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

PRINCIPLES OF RESERVOIR MANAGEMENT — 1 day

Introduction to field redevelopment study.
Reserves evaluation.
Understanding the reservoir production energy.
Development using proven strategies.
Reservoir monitoring and data acquisition.
Application of improved recovery techniques.

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Exercises.

RESERVES ESTIMATIONS, PROBLEMS IDENTIFICATION — 1 day

Performance analysis and criteria for performance analysis methods.
Identifying shut-in or low PI's wells.
Analyzing the surface gathering network and identifying the main bottlenecks.
Defining a monitoring plan.
Improved Oil Recovery (IOR) techniques.
Enhanced Oil Recovery (EOR) techniques.
Exercises.

PRINCIPLES OF RESERVOIR MANAGEMENT PRINCIPLES - CASE STUDIES — 2 days

Case study n°1: Development of a reservoir with excessive gas production.
Case study n°2: Development of tight oil reservoirs (improved techniques).
Case study n°3: Development of a mature field (proven strategies).

PROJECT ECONOMICS & RISK EVALUATION — 1 day

Fundamentals of petroleum economics.
Economic evaluation criteria.
Uncertainty analysis and quantification.
Risk analysis and management.
Exercises.

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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