

Training - Mature Fields - Surface Production Issues



MATURE-EN-P



Face-to-face only



5 days

This course aims to provide an overview of field aging effects on production and of the solutions to maintain the production in mature fields

Level

Skilled

Public

Field, process or project engineers involved in mature oil field development/sales/take-over projects

Objectives

Attendees will be able to implement the following skills:

- Understand the specificities of mature field developments
- Maintain well productivity
- Compensate production decline
- Adapt surface facilities to field aging

Pedagogical & technical resources

- Highly interactive training by industry-specialist lecturers
- Numerous applications and illustrations

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 TO MATURE FIELD DEVELOPMENTS CHALLENGES

0.25 day

DRIVE MECHANISM & ENHANCED OIL RECOVERY

0.5 day

Concept selection of an EOR technique.
Validation process of an EOR technique.
Introduction to chemical EOR techniques.

RESERVOIR PRESSURE MAINTENANCE TECHNIQUES	0.25 day
WELL ACTIVATION	0.5 day
Gas lift. Use of PCP, beam pump and ESPs.	
WELL PRODUCTIVITY	0.5 day
Identifying a low well productivity. Root causes and remediation.	
TROUBLESHOOTING OF MATURE WELLS	0.5 day
Identifying problems of each well and associated remediation. Strategy for optimized remediation integration at the level of a field. Integrity of mature wells.	
ADAPTATION OF OIL TREATMENT TO PRODUCTION AGING	0.5 day
Evolution of emulsion quality over time. Evaluation of separators water handling capacity (design case/current operating conditions). Examples of process adaptation to field aging.	
ADAPTATION OF WATER TREATMENT	0.5 day
Evolution of water production over time. Adaptation of production water treatment capacities.	
ADAPTATION OF GAS TREATMENT	0.25 day
Evolution of associated gas flowrate over time. Evolution of gas quality. Gas recompression needs and adaptation of the gas compression package. Condensate recovery.	
ENERGY EFFICIENCY IN MATURE FIELD	0.25 day
Equipment performances. Process optimization. Fuel gas requirements vs. available associated gas.	
EXAMPLES OF MATURE FIELD DEVELOPMENTS	0.5 day
Example of Gabon and Cameroon mature fields developments.	
CORROSION MANAGEMENT IN MATURE FIELD	0.5 day
Corrosion mechanism. Integrity of wells and flow line.	

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