

Training - Oil and Gas Field Processing



OGFP-EN-P



Face-to-face only



5 days

This course provides a comprehensive overview of Oil & Gas field processing technology

Level

Knowledge

Public

Engineers and technicians interested, although not directly involved, in day-to-day Oil & Gas field processing operations: reservoir engineers, drilling and completion personnel, platform designers, petroleum architects, equipment suppliers, economists...

Objectives

Attendees will be able to implement the following skills:

- List main characteristics of Oil & Gas well effluents, assess problems induced by unwanted compounds
- Explain gathering network design and operations
- Detail field treatment of Oil & Gas streams and processes technology
- Grasp fundamentals of Oil & Gas field processing operations and related operating conditions
- Ascertain the treatment processes necessary for production water and injection water

Pedagogical & technical resources

- Course delivered by industry specialists
- Numerous applications and illustrations

Through our LMS, the following are shared or made available:

- Introductory content a few days before the virtual class, to save time and efficiency
- Training material, applications and additional content

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

Complementary informations

This training corresponds to the first week of the training entitled "Field Processing and Surface Production Facilities" and can be delivered independently

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

WELL EFFLUENTS BEHAVIOR

0.5 day

Different types of well effluent. Main characterization parameters.
Liquid-vapor equilibrium of pure substances and mixtures. Effluent behavior.
Constituents that pose problems for storage, transport or commercialization.
Main specifications to conform with and required treatments.

FUNDAMENTALS OF RESERVOIR & DRIVE MECHANISM

0.25 day

Reservoirs: types, exploration techniques.
Drive mechanisms.
Enhanced Oil Recovery (EOR): aim and principle of the main techniques.

FUNDAMENTALS OF DRILLING, COMPLETION & WELL PERFORMANCE

0.5 day

Drilling principle. Case of offshore drilling.
Main completion equipment.
Well performance. Needs for artificial lift: principle of artificial lift by pumping, gas lift...

CRUDE OIL PROCESSING

1.25 days

Crude stabilization by Multi Stage Separation (MSS): election of the number of stages, effect of operating parameters, management of foam issues.
Crude dehydration and desalting. Emulsion treatment: operating parameters, internals, chemicals selection.
Crude sweetening (H₂S removal).
Examples of oil treatment and associated gas compression process schemes.

PRODUCTION & INJECTION WATER TREATMENT

1 day

Quality requirements for production water. Environment related constraints.
Main produced water treatments: API oil-water separators, plate separators, flotators, hydrocyclones...
Reasons for water injection.
Quality requirements and necessary treatments: chlorination, filtration, oxygen removal, sulfate removal.
Examples of process schemes for production and injection water treatment.

GAS PROCESSING & CONDITIONING

1.5 days

Inhibition of hydrate formation: injection of MeOH, MEG, DEG, LDHI...
Gas dehydration (drying): TEG units, solid desiccants (molecular sieves) units.
Gas sweetening. Acid components (H₂S and CO₂) removal: amine units, molecular sieves, membranes. Natural Gas Liquids (NGL) extraction: use of cryogenic refrigeration, Joule-Thompson expansion, turbo-expander.
Fundamentals of Liquefied Natural Gas (LNG) chain.

Sessions

Rueil-Malmaison - From 11/23/2026 to 11/27/2026

4360 €/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