

Training - Subsea Production Systems (SPS)



SPS-EN-P



Face-to-face only



5 days

This course provides an in-depth technical knowledge of Oil & Gas subsea production systems

Level

Skilled

Public

Engineers and technicians involved in the design, construction or operation of Oil & Gas subsea production systems

Objectives

Attendees will be able to implement the following skills:

- Select the technology with the right criteria for the different equipment used for subsea production systems
- Select through typical subsea architecture and in particular in deep offshore
- Check installation techniques (with ROV, etc.)
- Deal with the main problems of flow assurance and prevention techniques

Pedagogical & technical resources

- Numerous examples from ongoing projects
- Trainers are specialized engineers, presently involved in deep-offshore projects

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

In order to be able to follow this training, trainees are asked to fulfill at least one of the criteria below:

- either have proven experience of deep offshore projects of at least 1 year,
- or to be in evolution towards a position related to deep offshore projects.

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

SUBSEA COMPONENTS & FIELD ARCHITECTURE

1.5 days

Typical field architectures: loop, single line, hybrid loop, separation...

Surface production and storage technologies: FPSO, TLP...

Subsea production systems: XT, jumper, manifold, production lines, risers, umbilicals.

Umbilical networks: electrical, hydraulic, chemicals...

Flowlines, risers and export systems.
 Examples of offshore developments.
 Pipeline and riser concept.
 Materials (steel, corrosion resistant alloys, anti-corrosion coatings, thermal insulation...).
 Pipeline installation.
 New technologies under development (subsea separation, subsea processing, subsea pumping, subsea compression, heating, surface support...).

SUBSEA CONSTRUCTION & INTERVENTION

1.5 days

Construction and multi-purpose support vessels.
 Surface and subsea positioning.
 ROV/diving operations.
 Description of main subsea interventions methods.

INSPECTION, MAINTENANCE & REPAIR

1.5 days

Anomalies: physical/structural integrity issues; functional non-conformities integrity issues.
 External and internal inspection, monitoring.
 Maintenance: subsea interventions; operational pigging.
 Clamps and spool repairs.
 Constraints specific to deep-water offshore production.
 Environmental constraints (temperature, sea, seabed, access...).
 Flow assurance issues: pressure, temperature, hydrates.

OPERATION FROM PRODUCTION PLATFORMS

0.5 day

General description (subsea control devices, valve actuation process...).
 Description of typical operations.
 Description of specific operations.

Sessions

Rueil-Malmaison - From 09/14/2026 to 09/18/2026

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