This training course is offered under the **Alliance4Training** brand

Training - HSE in Surface Production Operations

EPSAFOP-EN-P | **Face-to-face only** | **5 days**

This course provides a thorough understanding of risks and safety measures related to products, equipment and different operations in Oil & Gas production facilities

Level

Knowledge

Public

Engineers and staff involved in operating Oil & Gas field production facilities

Objectives

Attendees will be able to implement the following skills:

- Deepen knowledge of hazards involved in routine operations, SIMOPS and shutdown/start-up operations
- Assess risks involved in different operations and adopt best industry practices
- Adopt the most appropriate safety measures in routine Oil & Gas processing operations and when faced with unforeseen events
- Explain key safety management rules leading to high HSE standards

Pedagogical & technical resources

- Several applications and illustrations
- Several case studies and teamwork sessions

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

OPERATIONS & HSE — 0.25 day

Hazards and risks incurred. Consequences.
Risk management means: equipment, organizational and human aspects.

MAIN HAZARDS OF HYDROCARBON PROCESSING — 0.75 day

Flammability: flame ignition and propagation principles. Types of combustibles, oxidizers and most common

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ignition sources in process facilities.
Toxicity: exposure limits. Specific hazards associated to H2S. Use of Safety Data Sheet (SDS).
Fluid behavior and related hazards: vessel pressure, consequences of temperature variation (thermal expansion, vaporization, vacuum, water hammer).
Fundamentals of pressure relief equipment: pressure relief valves, rupture disks, vacuum protection, flame arrestors.

RISK ASSESSMENT TOOLS - JOB SAFETY ANALYSIS — 0.5 day

Fundamentals of risk assessment process.
Job Safety Analysis (JSA) procedure and steps.
JSA exercise.

PERMIT TO WORK SYSTEM PROCEDURE — 0.5 day

Permit To Work (PTW) system. Objectives. Roles and responsibilities.
Main elements of PTW system. Typical approval process and information flowchart.
Master permit and associated certificates.
Management of shift and rotation handover. Permit renewals.
New technologies applied to PTW system. Digital PTW.

SAFE ISOLATION OF PLANT & EQUIPMENT — 1.5 days

Management of isolations.
Lock-out/tag-out procedure.
Steps of process isolations.
Degassing-inerting: steam, nitrogen, water, vacuum, work permits...
Risks associated to operations of depressurization and drainage toward: flare, slops, tanks, oily water.
Start-up: checks, accessibility and cleanliness, line up, deaeration, seal tests, oil in.
Personal Protective Equipment (PPE).

HSE IN MAINTENANCE & CONSTRUCTION WORKS — 0.5 day

Risks associated to construction and maintenance works:

- Lifting and rigging operations.
- Access and working in confined space. Ventilation and atmosphere analysis: oxygen content explosivity, toxicity.
- Works at height: ladders, scaffolding, mobile elevated working platforms...
- Safe use of tools.
- Radioactive sources.

ORGANIZATIONAL FRAMEWORK - HUMAN FACTORS — 0.5 day

Introduction to HSE management system.
SIMultaneous OPerations (SIMOPS) management.
Management of change.
Downgraded situations.
Human factors in risk management.

ENVIRONMENTAL MANAGEMENT IN FIELD OPERATIONS — 0.5 day

Main concepts.
Tools to manage sustainability.
Potential environmental impacts in field operations.
Sustainability reporting. Introduction to regulatory framework.

Sessions

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Pau - From 10/05/2026 to 10/09/2026 **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

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