

# € TRAINING

FPSO Marine



3 - 7 November 2024  
Cairo (Egypt)



# FPSO Marine

REF: D1778 DATE: 3 - 7 November 2024 Venue: Cairo (Egypt) - Fee: 4465 Euro

## Introduction:

This training program delves into advanced strategies and contemporary approaches in FPSO Floating Production, Storage, and Offloading operations, enabling professionals to stay ahead in a dynamic environment. It empowers participants to implement effective FPSO management practices and drive organizational success.

## Program Objectives:

At the end of this program the participants will be able to:

- Understand the history and technology of FPSOs, including design and operational considerations.
- Assess environmental and design requirements for FPSO mooring systems, cargo handling, and storage.
- Implement effective health, safety, and environmental practices, including emergency shutdown systems and fire protection.
- Manage utility and power systems, including offshore electrical systems, gas turbines, and telecommunication systems.
- Operate and oversee cargo handling systems, including crude oil loading and discharge arrangements, and ensure compliance with custody transfer and safety procedures.

## Targeted Audience:

- Engineers from different disciplines.
- Project engineers and managers.
- Managers and executives who are new to the FPSO industry.
- Operational & maintenance staff.
- Non-engineering personnel working in FPSO environment.

## Program Outlines:

Unit 1:

### Environmental and Design Aspects:

- History of FPSOs.

- Introduction to FPSO technology.
- FPSO Layout.
- Design and Operation Considerations.
- Codes and Regulations.
- Inspection and Maintenance Requirements.

## Unit 2:

### Environmental and Design Aspects:

- Environmental conditions.
- Mooring Lines and Anchors.
- Turrets and Swivel System.
- Pipeline Systems -Subsea Interfaces Subsea Umbilicals, Risers and Flowlines SURF and Subsea Pipeline installation.
- Marine & Structural Design Aspects.
- Lifesaving Appliances.
- Survival Craft.

## Unit 3:

### FPSO Storage and Offloading:

- Cargo Handling Systems -Cargo and Ballast System.
- Crude Oil Loading and Discharge Arrangements.
- Crude oil storage, crude oil washing COW.
- Flare and vent System.
- Cargo Tank Vent and Inert Gas System.
- Inverting Operation.
- Custody transfer requirements.
- Tank entry safety procedure.

## Unit 4:

### Utility and Power Systems:

- Marine, Utility, and Piping Systems.
- Offshore Electrical System.
- Gas Turbines.
- Development of Philosophies.
- Batteries and UPSs.
- Telecommunication.

## Unit 5:

### Health, Safety and Environment HSE:

- Safety in Operation and Maintenance.
- Machinery, Equipment and Safety Systems.
- Safety and Emergency Systems.
- Emergency shutdown systems ESD.
- Hazards Areas and Hazards Area Equipment.
- Fire Protection and Fire Detection.