

FPSO Design, Operation and Maintenance

(Floating Production Storage and Offloading)

3-Day Program

DAY 1

- Introduction to Floating Production, Storage and Offload
- Introduction to FPSO Design and Technology
- Rules, Regulations, Codes and Standards
- Operation Requirements
- Maintenance – Guidance and General Requirements
- Plant Inspection
- Plans Procedures and Records
- Processing Operations
- FPSO Process System
- Environmental and Design Aspects affecting Operation
- Corrosion and Corrosion Protection
- Stress Buckling and Fatigue
- Hull Structural Assessment
- Topsides
- Mooring Lines and Anchors
- Turret and Swivel System
- SURF and Subsea Interfaces
- Accommodation and Lifesaving Equipment

DAY 2

- Storage and Offloading
- Cargo Pumping System Characteristics
- Cargo Storage
- Cargo Heating
- Cargo Blanketing and Venting
- Crude Oil Wash
- Cargo Control System
- Cargo Metering
- Tank Entry
- Ballast System
- Cargo Loading and Stability
- Cargo Transfer Operations and Procedures
- Offloading Crude
- Custody Transfer
- Diesel Oil Storage Treatment Transfer
- Pressure Safety Valves
- Emergency Shutdown Valves (QC valves)
- Power Heating and Utility Systems
- Power Generation and Heating

- Power Distribution System
- Heating Sources and Generators
- UPSs and Batteries
- Cooling System
- Utility Systems
- Electrical System

DAY 3

- Piping
- Instrumentation
- Telecommunication
- HVAC
- Safety in Operation and Maintenance
- Control and Safety Systems
- Safety Instrumentation
- Accessibility to the FPSO Offshore Plant
- Fire Prevention and Control (F&G)
- Hazards associated with Process Fluids
- Assessment of Hazards
- Emergency Plan – equipment and procedures
- Fire Prevention and Control
- Electrical Safety
- Emergency Shutdown