

FPSO Operations and Maintenance Training Course

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Overview

FPSO Operations and Maintenance Training Course is a one-week intermediate course for production, marine, control-room, maintenance, planning, and offshore supervision teams who leave with an FPSO Operations and Maintenance Coordination File. The course connects FPSO production operations, FPSO marine systems, cargo offloading operations, control-room coordination, FPSO maintenance planning, and abnormal-operation recovery. Participants use operating boundaries, shift records, permits, isolation evidence, work orders, and recovery checks to coordinate safe day-to-day decisions. Agile Leaders Training Center delivers this course on FPSO operations and maintenance.

Who Should Attend

- Functions responsible for offshore production, process stability, utility availability, and operating limits
- Teams responsible for marine systems, ballast, station keeping, cargo storage, and offloading interfaces
- Functions responsible for control-room monitoring, alarms, handovers, and operating coordination
- Teams responsible for planned and corrective maintenance, work preparation, spares, and closeout evidence
- Supervisory groups responsible for permits, isolations, simultaneous work, shutdowns, and recovery decisions

The course assumes participants already use offshore operating procedures, shift records, equipment histories, or maintenance work orders and leaves out live-vessel operation, detailed integrity assessment, subsea engineering, vendor certification, and repair execution.

Departments and Industries

The course supports coordinated FPSO operations and maintenance across offshore production and marine service environments.

- Offshore production, process operations, control rooms, and utilities
- Marine operations, cargo handling, ballast, mooring, and deck services
- Maintenance, reliability, work planning, materials, and technical services
- Oil and gas production, offshore logistics, marine support, and terminal interfaces
- Safety, permit control, emergency response, and operations technology support

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Learning Objectives

By the end of this course, participants will be able to:

- Analyze FPSO production, marine, cargo, and utility interfaces.
- Use shift, alarm, permit, isolation, and handover evidence.
- Build planned and corrective maintenance work controls.
- Evaluate ballast, mooring, storage, and offloading conditions.
- Prioritize production continuity, safety, and maintenance actions.
- Apply shutdown and recovery decision checks.

Course Agenda

Day 1: Map the FPSO Operating Model

- FPSO Hull, Topsides, Marine, and Production Interface Map
- Process Train, Utility, Flare, and Support-System Operating Boundary
- Control Room, Field Team, Marine Team, and Maintenance Responsibility Matrix
- Operating Envelope, Alarm, Trip, and Escalation Register
- Shift Log, Handover, and Production Evidence File Structure

Day 2: Coordinate Production and Marine Systems

- Separator, Treatment, Compression, and Export Flow Path Diagram
- Power Generation, Water, Air, Fuel, and Utility Availability Checklist
- Ballast, Trim, Stability, and Tank-Status Coordination Sheet
- Station-Keeping, Mooring, Weather, and Marine Condition Review
- Control-Room Trend, Alarm, and Field Verification Method

Day 3: Control Storage, Cargo, and Offloading

- Cargo Tank Level, Pressure, Temperature, and Transfer Status Board
- Cargo Pump, Valve, Inert-Gas, and Lineup Verification Checklist
- Offloading Readiness, Communication, and Interface Confirmation Sheet
- Simultaneous Operations and Exclusion-Boundary Coordination Map
- Cargo Deviation, Stop-Transfer, and Safe-State Decision Tree

Day 4: Plan Maintenance and Recovery

- Equipment Criticality, Defect, and Work-Priority Screening Matrix
- Permit-to-Work, Isolation, Verification, and Handover Record
- Planned Maintenance, Corrective Work, Spares, and Backlog Control Board
- Operations-Maintenance Window and Production Impact Assessment
- Abnormal Operation, Shutdown, Restart, and Recovery Checklist

Day 5: Practice Coordinated FPSO Decisions

- Exercise: Reconcile Production, Utility, and Alarm Evidence
- Exercise: Coordinate Ballast, Mooring, and Marine Conditions
- Exercise: Verify Cargo Storage and Offloading Readiness
- Exercise: Plan a Maintenance Isolation and Recovery Sequence
- Capstone Exercise: Build the FPSO Operations and Maintenance Coordination File

Practical Exercises

The course uses suggested activities to connect operating evidence with coordinated offshore decisions.

- Suggested activity: map production, utility, marine, cargo, control-room, and maintenance interfaces for a shift scenario.
- Suggested activity: review alarms, tank status, weather, work permits, and maintenance constraints before an offloading decision.
- Suggested activity: prioritize defects and work orders while protecting production continuity and operating boundaries.
- Suggested activity: document a controlled shutdown, handover, restart, verification, and recovery sequence.

FAQs

Who suits FPSO operations and maintenance training and what does it assume?

FPSO operations and maintenance training suits offshore production, marine, control-room, maintenance, planning, and supervisory teams that already use procedures, shift records, equipment histories, or work orders.

How does FPSO operations and maintenance differ from FPSO asset integrity management?

FPSO operations and maintenance focuses on daily production, marine, cargo, control-room, work-control, shutdown, and recovery coordination, while asset integrity management focuses on degradation threats, inspection evidence, anomaly assessment, repair assurance, and lifecycle decisions.

How are FPSO cargo offloading operations coordinated?

FPSO cargo offloading operations are coordinated through tank status, pump and valve lineup, inert-gas condition, communication checks, interface confirmation, weather and marine limits, exclusion boundaries, stop criteria, and recorded handovers.

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How does FPSO maintenance planning protect production continuity?

FPSO maintenance planning protects production continuity by screening criticality, confirming permits and isolations, coordinating work windows, checking spares and dependencies, assessing production impact, and defining restart and verification steps.

Conclusion

Participants take back an FPSO Operations and Maintenance Coordination File. The file connects operating boundaries, production and utility status, marine and cargo conditions, shift evidence, permits, isolations, work priorities, spares, shutdowns, and recovery checks. It changes disconnected operating and maintenance records into a traceable basis for coordinated day-to-day decisions and technical supervision.

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