MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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THE FUTURE OF OIL & GAS – FPSO FUNDAMENTALS & ADVANTAGES

"Unlocking the Potential of Floating Production Storage and Offloading Systems in Offshore Energy Development"

Schedule

Date	Venue	Fees (Face-to-Face)
22 – 26 Nov 2026	Manama, Bahrain	USD 3495 per delegate

Introduction

Floating Production Storage and Offloading (FPSO) systems have emerged as a game-changer in offshore oil and gas development. With increasing global demand for flexible and cost-effective production solutions, FPSOs provide rapid deployment, reduced infrastructure needs, and the capability to operate in deepwater and remote environments.

This in-depth 5-day course delivers a comprehensive understanding of FPSO technology, operations, and strategic advantages. Participants will explore FPSO design, functionality, safety considerations, and deployment planning while evaluating the economic and technical benefits these systems bring to modern offshore energy projects.

Objectives

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

- Understand the core components, functionality, and configuration of FPSO units
- Evaluate the economic, operational, and environmental advantages of FPSOs
- Assess critical design and engineering considerations in FPSO deployment
- Explore contracting models, lifecycle strategies, and risk management approaches
- Analyze the future trends and innovations shaping FPSO adoption in the energy transition

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Why Attend

- Gain a solid foundation in FPSO systems, operations, and benefits
- Prepare for future offshore developments with flexible production strategies
- Identify cost drivers, value propositions, and project delivery options
- Understand technical challenges such as turret design, mooring, and riser systems
- Stay ahead in offshore innovation as the industry shifts toward decarbonization

Target Audience

This program is designed for:

- Offshore and petroleum engineers
- Project managers and marine operations professionals
- Asset development planners and business analysts
- Technical professionals involved in FPSO procurement or operations
- Regulators, finance professionals, and industry newcomers seeking FPSO knowledge

Individual Benefits

Key competencies that will be developed include:

- FPSO project evaluation and economic feasibility analysis
- Understanding of topside process systems and hull integration
- Knowledge of key FPSO safety and regulatory considerations
- Capability to assess suitability of FPSO vs fixed platform options
- Strategic awareness of FPSO role in global offshore developments

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced decision-making on offshore development strategies
- Reduced project risk through better planning and FPSO understanding
- Optimized capital deployment in deepwater or marginal field projects
- Improved technical communication between design, commercial, and operations teams
- Greater alignment with energy transition and offshore innovation goals

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – FPSO lifecycle, project planning, and contracting
- Case Studies – Real-world FPSO deployments and performance reviews
- Workshops – Feasibility analysis, configuration planning, and operations review
- Peer Exchange – Experience sharing across disciplines and project types
- Tools – Checklists, decision matrices, and cost comparison models

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Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: FPSO Concepts and Market Overview

- Module 1: Introduction to FPSO Technology (07:30 – 09:30) • Evolution, types, and global adoption of FPSOs
- Module 2: Offshore Market Trends and Future Demand (09:45 – 11:15) • Energy transition, marginal field strategies, and deepwater focus
- Module 3: Workshop – FPSO vs Fixed Platforms: Strategic Comparison (11:30 – 01:00) • Assess suitability based on project parameters
- Module 4: Peer Exchange – Global FPSO Projects and Lessons Learned (02:00 – 03:30) • Discussion on recent developments and case learnings

Day 2: FPSO Design, Components, and Integration

- Module 5: FPSO Hull and Topside Design (07:30 – 09:30) • Hull configurations, process systems, and layout
- Module 6: Mooring Systems and Turret Configurations (09:45 – 11:15) • Turret design, weathervaning, and riser interfaces
- Module 7: Workshop – Configuring an FPSO for Field Requirements (11:30 – 01:00) • Tailor design elements to sample field profiles
- Module 8: Case Study – Design Review of a Deepwater FPSO (02:00 – 03:30) • Highlight challenges and engineering tradeoffs

Day 3: Operations, Maintenance, and Safety

- Module 9: FPSO Operations and Process Management (07:30 – 09:30) • Production, storage, offloading, and metering
- Module 10: Inspection, Maintenance, and Asset Integrity (09:45 – 11:15) • Marine systems, safety equipment, and class compliance
- Module 11: Workshop – Developing a Maintenance Strategy (11:30 – 01:00) • Plan routine and shutdown tasks across systems
- Module 12: Peer Exchange – Operational Challenges in Harsh Environments (02:00 – 03:30) • Explore mitigation strategies and contingency planning

Day 4: Commercial Models and Project Delivery

- Module 13: FPSO Contracting and Ownership Models (07:30 – 09:30) • Lease vs build-own-operate-transfer (BOOT) structures
- Module 14: FPSO Project Delivery and Risk Allocation (09:45 – 11:15) • EPC contracting, modularity, and cost forecasting
- Module 15: Workshop – Cost-Benefit Analysis of FPSO Options (11:30 – 01:00) • Compare lifecycle cost scenarios
- Module 16: Case Study – FPSO Procurement Negotiation (02:00 – 03:30) • Review key deal terms and lessons

Day 5: Innovation and the Future of FPSOs

- Module 17: Digitalization and Automation in FPSOs (07:30 – 09:30) • AI, condition monitoring, and predictive maintenance
- Module 18: FPSOs in the Energy Transition (09:45 – 11:15) • Gas FPSOs, carbon capture, and hybrid energy applications
- Module 19: Final Project – Designing an FPSO Deployment Plan (11:30 – 01:00) • Apply learnings to a mock offshore project
- Module 20: Wrap-Up, Feedback, and Certification (02:00 – 03:30) • Course summary and certificate awarding

Certification

Participants will receive a Certificate of Completion in The Future of Oil & Gas – FPSO Fundamentals & Advantages, validating their expertise in understanding, evaluating, and planning FPSO-based offshore energy projects.

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Why Choose MAWA Events

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