

FPSO Maintenance & Operations Planning Masterclass

ASSETS
PEOPLE
PLANS
GREATER
POSSIBILITIES

Programme Overview

One Connected FPSO Maintenance-Readiness
Operating Model



SAFER
OPERATIONS



HIGHER
AVAILABILITY



LOWER
TOTAL COST



A CLEANER
ENERGY FUTURE

PLANNING
PROGRESS
TOGETHER

FPSO MAINTENANCE READINESS MASTERCLASS

FPSO Maintenance & Operations Planning Masterclass

Programme Overview

A five-day integrated masterclass built around one connected FPSO maintenance-readiness operating model.

The programme proposition

The Masterclass connects CMMS, maintenance planning, operations coordination, breakdown response and shutdown execution into one operating model. It starts with the maintenance framework and data foundation, converts that foundation into executable work, and then stress-tests the system against major equipment breakdowns and planned production shutdowns.

Designed for

- FPSO operators and asset teams
- Operations Readiness and Maintenance Readiness teams
- Maintenance, Reliability, Planning and CMMS functions
- Projects transitioning from EPC/commissioning into operations
- Technical leaders preparing assets for stable, controlled production

Lagosplan Technical Services FZE

Commercial-Technical Training Programme | 5 days | Instructor-led | FPSO-focused

From isolated maintenance activities to an executable readiness system

FPSO maintenance performance depends on more than a populated CMMS or a well-written maintenance strategy. The asset must be able to convert engineering intent, equipment criticality and maintenance requirements into controlled, executable work while operations continue to manage production, isolation, permit-to-work, redundancy and operational risk.

This Masterclass is designed around that reality. Each day builds a layer of the same operating model, with outputs from one day becoming inputs to the next. The result is a practical framework for maintenance readiness that can be applied during project delivery, Operations Readiness, start-up, steady-state operations, major corrective work and planned shutdowns.

The connected operating model

1	FRAMEWORK	Governance, maintenance philosophy, roles, criticality and readiness expectations
2	DATA FOUNDATION	Asset hierarchy, tags, task lists, job plans, spares, BOMs and CMMS quality
3	WORK EXECUTION	Planning, scheduling, operations interface, permits, isolations, backlog and feedback
4	BREAKDOWN READINESS	MEBRP packages for major equipment failure, redundancy protection and rapid recovery
5	SHUTDOWN EXECUTION	Integrated scope, frozen plans, resources, materials, SIMOPS, execution control and close-out

Business value for the client

- Create a common language between project, maintenance, reliability, planning, CMMS and operations teams.
- Improve the quality of maintenance data before it reaches execution.
- Reduce planning latency and avoid discovering missing resources, documents, permits or spare parts after failure.
- Protect production and equipment redundancy by preparing major corrective interventions before breakdown occurs.
- Raise shutdown readiness by integrating scope, work packs, logistics, operations constraints and execution governance.
- Provide a practical framework that can be reused as an asset-specific readiness roadmap after the course.

Core message

Maintenance readiness is achieved when the asset can reliably move from strategy and data to safe, executable work - under both normal and abnormal operating conditions.

Five days, one operating model

The programme is deliberately sequenced. Day 1 establishes the maintenance-readiness framework. Day 2 builds the CMMS and data foundation. Day 3 converts that foundation into planned work integrated with operations. Day 4 applies the same system to high-consequence equipment breakdowns through the Major Equipment Breakdown Readiness Plan (MEBRP). Day 5 brings all previous layers together in the most demanding planned event: a production shutdown.

DAY 1

Framework

Purpose: Establish the governance and design logic for an FPSO maintenance-readiness system.

Core topics

- Maintenance strategy and operating context for FPSOs
- Asset criticality, redundancy and risk-based maintenance logic
- Maintenance Readiness / Operations Readiness interfaces
- Roles, governance, assurance gates and readiness criteria
- How maintenance, reliability, operations, engineering and supply chain connect

Applied outputs: Asset-specific readiness map; key interfaces; governance model; list of readiness controls.

Connection to the operating model: Defines the rules and expectations that govern all four subsequent days.

DAY 2

CMMS Setup & Data Foundation

Purpose: Build the structured information required to turn engineering intent into executable maintenance.

Core topics

- Asset hierarchy and equipment/tag structure
- Preventive maintenance task lists and job plans
- BOMs, spares, materials and documentation links
- Maintenance master data quality and upload/verification
- Criticality, failure information and linkage to planning

Applied outputs: CMMS readiness checklist; data-quality controls; sample job-plan structure.

Connection to the operating model: Creates the information backbone used by planners, technicians and operations on Day 3 and beyond.

Execution, breakdown readiness and shutdown integration

DAY 3

Maintenance Planning & Operations Integration

Purpose: Convert maintenance requirements into safe, schedulable and execution-ready work.

Core topics

- Work identification, screening, prioritisation and planning
- Job scope, resources, duration, tools, permits, isolations and access
- Weekly scheduling and coordination with production operations
- Backlog health, aging, deferrals and schedule compliance
- Feedback loops from execution into CMMS and maintenance strategy

Applied outputs: Planning workflow; execution-readiness checklist; operations-interface map; backlog control logic.

Connection to the operating model: Transforms CMMS data into controlled work while maintaining safe production and operational priorities.

DAY 4

Major Equipment Breakdown Readiness with MEBRP

Purpose: Prepare complex corrective interventions before failure so equipment can be restored with minimum downtime and loss of redundancy.

Core topics

- Identification of major equipment through criticality and failure scenarios
- OREDA / failure-history inputs and credible breakdown scenarios
- Major Equipment Breakdown Readiness Plan (MEBRP) structure
- Pre-engineered work scope, repair method, manpower, tooling, spares and vendor support
- Class/Flag/regulatory interfaces where applicable
- Recovery sequencing, contingency and redundancy protection

Applied outputs: MEBRP template; major-equipment candidate list; repair-package completeness criteria; readiness gap list.

Connection to the operating model: Stress-tests the planning system against low-frequency, high-impact failures. The same planning disciplines now operate under time-critical conditions.

DAY 5

Planned Shutdown Planning & Execution

Purpose: Integrate major planned interventions into a controlled production shutdown with clear scope, sequencing and execution governance.

Core topics

- Scope challenge, prioritisation and freeze philosophy
- Integrated schedule and critical path
- Work-pack maturity and materials readiness
- Operations preparations: shutdown, isolation, de-inventory, PTW and SIMOPS
- Contractor, logistics, lifting and specialist resource planning
- Execution control, progress measurement, emergent work and restart readiness
- Close-out, lessons learned and CMMS/history update

Applied outputs: Shutdown readiness checklist; integrated control model; execution KPIs; close-out structure.

Connection to the operating model: Brings together governance, data, planning, breakdown preparedness and operations coordination into one high-intensity execution event.

Why Day 4 matters

MEBRP is the bridge between routine maintenance planning and major corrective recovery. It asks the asset team to prepare the repair package while there is still time to think - rather than after the equipment has already failed.

APPLIED LEARNING MODEL

Built around realistic FPSO maintenance decisions

The Masterclass is practical by design. Participants work through the decisions that determine whether maintenance is truly executable: Is the equipment correctly identified? Is the job plan complete? Are parts and tools available? Can operations release the equipment? Are isolations defined? Is specialist support mobilisable? What happens to redundancy if the repair extends? What work must be completed before a shutdown window opens?

Learning methods

Instructor-led technical modules	Focused explanation of the operating model, planning logic and FPSO-specific constraints.
Worked examples	Representative maintenance scenarios linking asset data, planning, operations and execution.
Templates and checklists	Reusable structures for readiness reviews, job planning, MEBRP and shutdown preparation.
Group exercises	Cross-functional decisions that require maintenance, operations, reliability and support functions to align.
Case discussions	Typical failure modes in readiness: incomplete BOMs, weak job plans, missing vendor data, late isolations, emergent shutdown scope and poor backlog control.
Daily integration reviews	Short end-of-day review showing how the day's outputs feed the next layer of the operating model.

Representative integrated exercise

	Scenario A critical FPSO utility or production-support system experiences progressive reliability issues. Participants assess equipment criticality and redundancy, verify the CMMS foundation, build the executable maintenance plan, define operations and isolation requirements, develop an MEBRP for full breakdown, and decide whether the intervention should be executed online or moved into the next planned shutdown window.
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What participants leave with

- A clear visual model of how FPSO maintenance readiness should operate end-to-end.
- Practical criteria for judging CMMS and job-plan readiness - not only data completeness.
- A repeatable planning workflow linked to operational control.
- A structured MEBRP concept for high-consequence repair packages.
- A shutdown planning framework that starts well before the shutdown date.
- A set of templates and checklists that can be adapted to the client asset.

Who should attend

The Masterclass is most effective when attended by a cross-functional group. The objective is not only to develop individual knowledge, but to improve the interfaces that determine whether maintenance can be safely executed on the asset.

Function	Typical participants
Maintenance	Maintenance Managers, Superintendents, Engineers, Supervisors
Planning & Scheduling	Maintenance Planners, Schedulers, Shutdown Planners
Reliability	Reliability Engineers, Asset Integrity / Rotating Equipment specialists
CMMS / Data	CMMS Engineers, Master Data teams, Maintenance Build / OR teams
Operations	Operations Managers, Production Supervisors, Operations Engineers
Projects / Readiness	Operations Readiness, Maintenance Readiness, Commissioning and Transition teams
Support functions	Supply Chain, Materials, Logistics, HSE and Technical Authorities where relevant

Recommended delivery format

Duration	5 consecutive days or an agreed modular schedule while preserving the programme sequence.
Mode	Instructor-led classroom delivery; client-site delivery preferred for cross-functional workshops. Virtual/hybrid delivery can be adapted.
Daily structure	Technical module + applied examples + group exercise + integration review.
Class size	Typically 10-20 participants for effective interaction and cross-functional discussion.
Language	English; selected facilitation/support can be adapted where agreed.
Client customisation	Asset-specific terminology, CMMS environment, maintenance processes, shutdown maturity and representative equipment scenarios can be incorporated.

Why Lagosplan

Lagosplan brings the programme from an FPSO operating perspective: the emphasis is on the interfaces between technical requirements, maintenance data, execution planning, production operations, regulatory obligations and readiness for abnormal or high-intensity events.

FPSO-focused Content is framed around offshore production assets where maintainability, redundancy, marine constraints, permits, logistics and production continuity are tightly connected.	Execution-oriented The programme goes beyond maintenance theory and asks whether a work package can actually be executed safely, efficiently and at the required time.	Integrated by design CMMS, maintenance planning, operations integration, MEBRP and shutdown planning are taught as one system rather than independent subjects.
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Expected organisational outcomes

- Clearer ownership of maintenance-readiness interfaces across functions.
- Better definition of what “ready to execute” means for preventive, corrective and shutdown work.
- Improved maintenance master-data and job-plan quality.
- Earlier identification of gaps in spares, tooling, vendors, access, lifting, permits and isolations.
- Stronger preparation for major equipment failure through pre-engineered MEBRP packages.
- More disciplined shutdown scope, readiness and execution control.

Optional client-specific enhancements

- Pre-course maturity questionnaire and readiness baseline.
- Use of the client’s CMMS terminology, workflows and selected anonymised job plans.
- Asset-specific Major Equipment Breakdown Readiness workshop.
- Shutdown readiness review using the client’s planned event as the case study.
- Post-course management debrief and improvement roadmap.

ONE CONNECTED FPSO MAINTENANCE-READINESS OPERATING MODEL

Framework → CMMS & Data → Planning & Operations → MEBRP → Shutdown Execution

Lagosplan Technical Services FZE

FPSO Regulatory Compliance • Maintenance Readiness • Operations Readiness • Training

Commercial enquiries and programme customisation available on request.