MAWA EVENTS

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

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FABRIC MAINTENANCE FOR OFFSHORE AND MARINE ENVIRONMENTS

"Protecting Assets and Ensuring Integrity in Harsh Marine and Offshore Conditions"

Schedule

Date	Venue	Fees (Face-to-Face)
19 – 23 Oct 2026	Istanbul, Turkey	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Fabric maintenance plays a vital role in protecting offshore and marine infrastructure from corrosion, environmental degradation, and operational hazards. Structures exposed to harsh marine environments—such as oil rigs, FPSOs, ships, and ports—require proactive surface preparation, coating, insulation, and ongoing inspection to preserve integrity and ensure regulatory compliance.

This course delivers practical guidance on planning, executing, and monitoring fabric maintenance programs in offshore and marine settings. Participants will explore industry best practices, safety considerations, and technological advancements in coating systems, corrosion control, and maintenance management.

Objectives

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

- Identify key threats to asset integrity in offshore and marine environments
- Plan and execute surface preparation, coating, and protection systems
- Select appropriate materials and application techniques for marine conditions
- Implement inspection, quality control, and safety protocols
- Develop preventive maintenance strategies to reduce corrosion and downtime

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Why Attend

- Prevent costly corrosion-related failures and extend asset life
- Comply with industry standards such as NORSOK, ISO 12944, and IMO guidelines
- Reduce maintenance frequency through optimized protective systems
- Build skills in inspection, coating repair, and offshore HSE compliance
- Ensure continued production and asset safety in extreme offshore environments

Target Audience

This program is designed for:

- Fabric maintenance and coating supervisors
- Offshore engineers and marine operations personnel
- Corrosion engineers and inspectors
- Asset integrity, HSE, and QA/QC professionals
- Contractors and managers involved in offshore maintenance projects

Individual Benefits

Key competencies that will be developed include:

- Corrosion identification and coating system selection
- Surface preparation and application methods for offshore assets
- Inspection readiness and maintenance documentation
- Understanding of international standards for marine coatings
- Execution of safe, effective offshore maintenance work scopes

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced risk of corrosion-related incidents and failures
- Improved planning and lifecycle costing of maintenance programs
- Greater safety and regulatory compliance on offshore sites
- Higher asset uptime and operational reliability
- Better contractor performance and inspection outcomes

Instructional Methodology

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

- **Strategy Briefings** – Industry standards, technologies, and coatings lifecycle
- **Case Studies** – Failures, lessons learned, and maintenance optimization
- **Workshops** – Surface prep methods, coating specs, inspection planning
- **Peer Exchange** – Real-world challenges from offshore environments
- **Tools** – Coating datasheets, maintenance logs, inspection templates

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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: Introduction to Fabric Maintenance in Offshore Context

- Module 1: Fundamentals of Fabric Maintenance (07:30 – 09:30) • Scope, terminology, and types of maintenance • Offshore-specific maintenance challenges
- Module 2: Marine Environmental Conditions and Asset Exposure (09:45 – 11:15) • Corrosive agents: saltwater, humidity, UV, and biological growth • Environmental zones and degradation patterns
- Module 3: Coating and Protection Standards (11:30 – 01:00) • NORSOK M-501, ISO 12944, and IMO PSPC • Material compatibility and system selection
- Module 4: Workshop – Risk Mapping of Offshore Surfaces (02:00 – 03:30) • Group task on asset classification and degradation risks

Day 2: Surface Preparation & Application Methods

- Module 1: Surface Preparation Techniques (07:30 – 09:30) • Abrasive blasting, UHP water jetting, mechanical methods • Surface cleanliness and profile standards (e.g., SSPC/NACE)
- Module 2: Coating System Components and Functions (09:45 – 11:15) • Primers, tie-coats, sealers, topcoats, and passive fire protection • Dry film thickness and curing requirements
- Module 3: Offshore Application Challenges (11:30 – 01:00) • Humidity, temperature, access, tide/wave impact • Touch-up and repair practices offshore
- Module 4: Workshop – Specification Matching Exercise (02:00 – 03:30) • Participants match coatings to site conditions and maintenance goals

Day 3: Inspection, QA/QC & Defect Management

- Module 1: Inspection Techniques and Instruments (07:30 – 09:30) • DFT gauges, adhesion testers, holiday detectors • Surface preparation inspection
- Module 2: Quality Assurance Documentation (09:45 – 11:15) • ITPs, checklists, daily logs, coating reports • Paint system certification and approvals
- Module 3: Defects and Coating Failures (11:30 – 01:00) • Blistering, delamination, rust-back, overcoating issues • Repair recommendations and rework
- Module 4: Workshop – Defect Diagnosis and Reporting (02:00 – 03:30) • Case-based exercise using photos and inspection data

Day 4: Safety, Access & Logistics Offshore

- Module 1: Offshore Work Permits and Safety Planning (07:30 – 09:30) • Permit-to-work, confined space, dropped object prevention • PPE, scaffolding, and rope access systems
- Module 2: Logistics and Material Handling at Sea (09:45 – 11:15) • Paint storage, transport, and environmental controls • Weather delays and contingency planning
- Module 3: Contractor Management & Workpack Execution (11:30 – 01:00) • Supervision, job scope clarity, and inspection coordination • Performance indicators and lessons learned
- Module 4: Workshop – Offshore Workpack Simulation (02:00 – 03:30) • Developing and reviewing a coating job scope

Day 5: Program Planning, Costing & Wrap-Up

- Module 1: Maintenance Planning and Budgeting (07:30 – 09:30) • Preventive vs. corrective maintenance • Lifecycle costing and inspection frequency
- Module 2: Sustainability and Environmental Considerations (09:45 – 11:15) • Low-VOC coatings, waste reduction, spill controls • ISO 14001 and green certifications
- Module 3: Final Review and Participant Presentations (11:30 – 01:00) • Group presentations on assigned maintenance strategies
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Module 4: Certification & Action Planning (02:00 – 03:30) • Feedback, implementation plans, certificate distribution

Certification

Participants will receive a Certificate of Completion in Fabric Maintenance for Offshore and Marine Environments, validating their expertise in corrosion protection, coating system application, inspection, and maintenance planning in harsh marine settings.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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