MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

FABRIC MAINTENANCE IN EXTREME ENVIRONMENTS (ARCTIC, OFFSHORE)

"Protect Critical Assets in Harsh Conditions—Master Fabric Maintenance for Arctic and Offshore Environments."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

This advanced program is designed for professionals responsible for preserving the integrity of structures, pipelines, and facilities exposed to harsh environmental conditions, including offshore platforms, Arctic zones, and extreme marine environments. Participants will gain in-depth knowledge of protective coating systems, insulation, corrosion prevention, scaffolding, and surface preparation strategies that are adapted to cold, wet, and salt-laden conditions. The course emphasizes risk-based planning, safe work execution, and compliance with international standards such as NORSOK, ISO, and NACE.

Objectives

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

- Understand the challenges of fabric maintenance in cold and offshore climates
- Select and apply suitable protective coatings and insulation systems
- Implement corrosion protection and surface preparation under extreme conditions
- Plan, supervise, and assess maintenance activities in compliance with standards
- Integrate fabric maintenance with asset integrity and safety management programs

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Why Attend

Working in Arctic and offshore locations demands specialized knowledge and techniques. This course equips you to maintain structural safety, extend asset life, and minimize environmental and operational hazards in the world’s most demanding environments.

Target Audience

- Maintenance and Asset Integrity Engineers
- Offshore Operations Managers and Supervisors
- Surface Preparation & Coating Inspectors
- Fabric Maintenance Coordinators
- QA/QC and HSE Professionals in harsh environment operations
- Contractors working on FPSOs, offshore rigs, and Arctic facilities

Individual Benefits

- Learn industry best practices for challenging environments
- Gain hands-on understanding of protective system failures and solutions
- Improve competency in selecting materials and techniques suited for sub-zero or high-humidity environments
- Enhance your career with specialized skills in high-demand regions

Organizational Benefits

- Improve structural and asset reliability in high-risk zones
- Reduce unplanned shutdowns and high-cost repairs
- Ensure compliance with NORSOK, ISO 12944, and NACE standards
- Strengthen safety and environmental compliance programs

Instructional Methodology

- Case-based lectures and technical presentations
- Real-life Arctic and offshore maintenance project examples
- Visual aids (videos, diagrams) on surface prep and coatings under freezing or wet conditions
- Group activities and risk analysis workshops
- Interactive quizzes and end-of-day recaps

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Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

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 Harsh Environments

- Module 1: Overview of Fabric Maintenance – Arctic & Offshore Context (07:30 – 09:30)
- Module 2: Environmental Challenges: Cold, Moisture, UV, Salt, and Wind (09:45 – 11:15)
- Module 3: Key International Standards (ISO, NACE, NORSOK) (11:30 – 01:00)
- Module 4: Risk-Based Approach to Maintenance Planning (02:00 – 03:30)

Day 2: Surface Preparation & Coating Systems

- Module 1: Surface Preparation in Wet & Sub-Zero Environments (07:30 – 09:30)
- Module 2: Blasting, Hydrojetting & Surface Cleanliness Standards (09:45 – 11:15)
- Module 3: Protective Coatings – Epoxy, PU, Zinc-Rich, and Thermal Sprays (11:30 – 01:00)
- Module 4: Coating Failures and Remedial Measures (02:00 – 03:30)

Day 3: Insulation, Cladding, and Passive Fire Protection (PFP)

- Module 1: Insulation Materials & Jacketing for Cold/Marine Environments (07:30 – 09:30)
- Module 2: PFP and Fireproofing Application in Offshore Structures (09:45 – 11:15)
- Module 3: Corrosion Under Insulation (CUI) Prevention in Harsh Climates (11:30 – 01:00)
- Module 4: Inspection and Maintenance of PFP and Insulated Surfaces (02:00 – 03:30)

Day 4: Scaffolding, Rope Access, and Safety Controls

- Module 1: Safe Work at Heights in Offshore and Ice-Prone Sites (07:30 – 09:30)
- Module 2: Scaffolding Systems vs. Rope Access – Selection Criteria (09:45 – 11:15)
- Module 3: Work Permits, Hazard Assessments, and Barrier Management (11:30 – 01:00)
- Module 4: Job Planning and Team Coordination for Fabric Maintenance (02:00 – 03:30)

Day 5: Inspection, QA/QC, and Lifecycle Management

- Module 1: Inspection Techniques and Checklists for Arctic/Offshore Assets (07:30 – 09:30)
- Module 2: Documentation and Reporting – Painting and Coating Logs (09:45 – 11:15)
- Module 3: Long-Term Fabric Maintenance Strategies and KPIs (11:30 – 01:00)
- Module 4: Final Exam, Certification Wrap-Up & Action Planning (02:00 – 03:30)

Certification

Participants who complete the course and pass the final assessment will receive a Certificate of Completion – Fabric Maintenance in Extreme Environments (Arctic, Offshore), confirming their ability to plan and execute maintenance strategies in some of the most demanding operational conditions globally.

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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In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**