

## INTRODUCTION TO FABRIC MAINTENANCE

*“Preserving Asset Integrity, Safety, and Appearance through Structured Surface Protection”*

### Schedule

Date	Venue	Fees (Face-to-Face)
16 - 20 Nov 2026	Istanbul - Turkey	USD 3495 per delegate

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

### Introduction

Fabric Maintenance (FM) plays a critical role in extending the life of industrial infrastructure, especially in sectors such as oil & gas, petrochemicals, power generation, and marine. It encompasses all activities aimed at protecting and maintaining external surfaces and structural elements from corrosion, weathering, and mechanical damage.

This 5-day training course provides a practical foundation in the key concepts, materials, and techniques used in fabric maintenance programs. It is designed to help maintenance engineers, inspectors, and asset integrity professionals understand how effective FM contributes to plant safety, asset integrity, and long-term cost control.

### Objectives

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

- Understand the scope and importance of fabric maintenance in industrial environments
- Identify common forms of degradation and surface deterioration
- Select and apply surface preparation and protective coating techniques
- Develop inspection and maintenance schedules aligned with FM strategies
- Support safe and efficient scaffold, rope access, and containment operations

## Why Attend

- Minimize corrosion-related failures and aesthetic deterioration
- Enhance safety and compliance through consistent surface protection
- Reduce long-term asset repair costs with proactive FM planning
- Align maintenance activities with integrity, production, and HSE goals
- Learn international standards for surface prep, coating systems, and FM programs

## Target Audience

This program is designed for:

- Maintenance Engineers and Technicians
- Surface Preparation and Painting Supervisors
- Asset Integrity and Corrosion Management Professionals
- Scaffolding, Rope Access, and Coating Contractors
- Operations and HSE Team Members involved in asset upkeep

## Individual Benefits

Key competencies that will be developed include:

- Identification of coating failures and surface degradation types
- Understanding FM scope, systems, and execution methods
- Basic surface preparation and paint system application knowledge
- Use of FM planning tools and inspection standards
- Interface management with other asset integrity functions

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved coating performance and corrosion control
- Enhanced maintenance planning and FM project execution
- Reduced asset downtime and repair cost due to preventive FM
- Better contractor management and QA/QC practices
- Alignment of FM with plant integrity and production strategies

## Instructional Methodology

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

- Strategy Briefings - Fundamentals of corrosion, coatings, and FM approaches
- Case Studies - Industry examples of coating failures and FM success stories
- Workshops - Surface defect identification, specification reviews, and inspection planning
- Peer Exchange - Field challenges and lessons learned
- Tools - Coating inspection forms, FM execution checklists, and planning templates

## Course Outline

### DETAILED 5-DAY COURSE OUTLINE

**Training Hours:** 07:30 AM – 03:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: Understanding Fabric Maintenance Fundamentals

- Module 1: Introduction to Fabric Maintenance (07:30 – 09:30) • Definition, scope, and value of FM across asset lifecycles
- Module 2: Overview of Corrosion and Degradation Mechanisms (09:45 – 11:15) • Environmental exposure, mechanical damage, and coating failures
- Module 3: Role of FM in Integrity and HSE Programs (11:30 – 01:00) • Compliance, safety, and cost implications of surface neglect
- Module 4: Workshop – FM Scope Identification (02:00 – 03:30) • Participants define FM scope for a sample offshore platform

#### Day 2: Surface Preparation and Application Techniques

- Module 5: Surface Preparation Methods (07:30 – 09:30) • Abrasive blasting, water jetting, mechanical and chemical prep
- Module 6: Coating Types and Selection Criteria (09:45 – 11:15) • Epoxy, polyurethane, zinc-based, and thermal spray coatings
- Module 7: Coating System Application and Curing (11:30 – 01:00) • Application techniques, environmental conditions, curing times
- Module 8: Workshop – Coating System Selection (02:00 – 03:30) • Matching coating systems to service environments

#### Day 3: Inspection, Defects, and Quality Control

- Module 9: Coating Defects and Failure Modes (07:30 – 09:30) • Cracking, blistering, delamination, rust creep, underfilm corrosion
- Module 10: Inspection and Testing Techniques (09:45 – 11:15) • Dry film thickness (DFT), holiday testing, adhesion testing
- Module 11: QA/QC for FM Activities (11:30 – 01:00) • Inspection hold points, test plans, acceptance criteria
- Module 12: Workshop – Defect Diagnosis and QC Plan Review (02:00 – 03:30) • Participants assess coating defects and prepare inspection plans

#### Day 4: Execution Planning and Logistics

- Module 13: Work Access Solutions – Scaffolding and Rope Access (07:30 – 09:30) • Selection criteria, safety measures, and logistics
- Module 14: Containment, Ventilation, and Waste Handling (09:45 – 11:15) • Environmental protection, PPE, and regulatory compliance
- Module 15: FM Planning and Resource Scheduling (11:30 – 01:00) • Work packs, crew mobilization, weather windows
- Module 16: Workshop – FM Execution Plan (02:00 – 03:30) • Designing a plan for coating and surface renewal

#### Day 5: Long-Term FM Programs and Strategy

- Module 17: FM Budgeting and Cost Optimization (07:30 – 09:30) • Capex vs Opex, life-cycle cost of coatings, contractor pricing
- Module 18: Developing a Fabric Maintenance Strategy (09:45 – 11:15) • Planned vs reactive maintenance, priority mapping
- Module 19: Final Case Study – Integrated FM Plan (11:30 – 01:00) • Group design of a long-term FM program for a critical asset
- Module 20: Review and Certification (02:00 – 03:30) • Action planning and personal FM implementation roadmap

## Certification

Participants will receive a Certificate of Completion in Introduction to Fabric Maintenance, validating their understanding of FM practices, protective coating systems, and their role in safeguarding asset reliability and surface integrity.

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