MAWA EVENTS

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

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

INSPECTION AND MONITORING IN FABRIC MAINTENANCE

"Preserving Asset Integrity through Effective Fabric Inspection & Monitoring Techniques"

Schedule

Date	Venue	Fees (Face-to-Face)
22 – 26 Jun 2026	Istanbul, Turkey	USD 3495 per delegate

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

Introduction

Fabric maintenance plays a critical role in ensuring the long-term integrity, safety, and performance of industrial assets. Corrosion, coating failures, and surface degradation can lead to severe structural risks and costly repairs if not detected and mitigated early.

This 5-day course equips engineers, inspectors, and maintenance teams with essential knowledge and tools for effective inspection, condition monitoring, and planning of fabric maintenance activities. Covering industry best practices, international standards, and real-world inspection methods, the program strengthens organizational capabilities in proactive asset care.

Objectives

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

- Identify types of fabric deterioration and failure mechanisms
- Apply various inspection and monitoring techniques (visual, ultrasonic, etc.)
- Interpret inspection data to assess integrity risks and plan interventions
- Use international standards (SSPC, NACE, ISO) in coating and corrosion evaluation
- Develop inspection schedules and reporting systems for maintenance planning

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Why Attend

- Understand the full scope of fabric maintenance and its impact on asset life
- Gain practical skills in coating inspection, corrosion monitoring, and testing
- Learn how to assess and interpret deterioration and surface condition data
- Improve planning of inspections and integration with preventive maintenance
- Support compliance with safety, environmental, and integrity standards

Target Audience

This program is designed for:

- Maintenance and inspection engineers
- Fabric maintenance supervisors and planners
- Corrosion control and coating specialists
- Quality assurance and HSE personnel
- Asset integrity and reliability professionals

Individual Benefits

Key competencies that will be developed include:

- Knowledge of fabric deterioration types and detection methods
- Competence in inspection execution and documentation
- Ability to prioritize maintenance based on risk and condition data
- Familiarity with surface preparation and coating inspection standards
- Confidence in reporting findings and recommending actions

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Strengthened inspection protocols and quality control in fabric maintenance
- Early detection of degradation, reducing repair costs and downtime
- Improved integration of inspections with maintenance strategies
- Enhanced compliance with industry standards and regulatory requirements
- Greater consistency in inspection documentation and reporting

Instructional Methodology

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

- Strategy Briefings – International standards, surface degradation types
- Case Studies – Fabric failures, inspection findings, and response
- Workshops – Coating inspection tools, surface prep evaluation, and data sheets
- Peer Exchange – Experiences across industries and asset types
- Tools – Checklists, inspection templates, and digital monitoring systems

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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: Fundamentals of Fabric Maintenance

- Module 1: Fabric Materials and Surface Deterioration (07:30 – 09:30) • Steel structures, insulation, coatings, and wrapping • Causes of deterioration: corrosion, weather, aging
- Module 2: Coating Types and Protection Mechanisms (09:45 – 11:15) • Barrier, sacrificial, and inhibitive coatings • Paint systems, selection, and failure modes
- Module 3: Industry Standards and Requirements (11:30 – 01:00) • ISO 8501, SSPC, NACE standards overview • Compliance obligations and inspection frameworks
- Module 4: Workshop – Review Common Deterioration Cases (02:00 – 03:30) • Analyze field images and classify defect types

Day 2: Inspection Techniques and Equipment

- Module 5: Visual and Close-Up Inspection Methods (07:30 – 09:30) • Direct, remote, and aided visual inspection • Surface prep grades and coating assessment
- Module 6: Thickness Measurement and Defect Detection (09:45 – 11:15) • DFT measurement, pinhole testing, holiday detectors • Corrosion mapping and flaw identification
- Module 7: Non-Destructive Testing (NDT) for Fabric Surfaces (11:30 – 01:00) • Ultrasonic, magnetic, and eddy current techniques • Surface vs subsurface defect detection
- Module 8: Workshop – Hands-on Demo of Inspection Tools (02:00 – 03:30) • Use mock tools or case videos to simulate testing

Day 3: Inspection Planning and Execution

- Module 9: Inspection Program Design (07:30 – 09:30) • Frequency, coverage, and risk-based planning • Inspection matrix and scheduling
- Module 10: Safety Considerations During Inspection (09:45 – 11:15) • Confined spaces, heights, hot surfaces • PPE and access requirements
- Module 11: Field Data Recording and Digital Tools (11:30 – 01:00) • Inspection reports, photos, and annotations • Software and mobile inspection platforms
- Module 12: Workshop – Build an Inspection Checklist (02:00 – 03:30) • Customize checklist for coating inspection activity

Day 4: Defect Evaluation and Maintenance Coordination

- Module 13: Interpreting Inspection Results (07:30 – 09:30) • Defect classification and severity rating • Acceptance criteria and action triggers
- Module 14: Integration with Fabric Maintenance Activities (09:45 – 11:15) • Aligning inspections with repair or recoating cycles • Planning for blasting, surface prep, and painting
- Module 15: Risk-Based Inspection Planning (11:30 – 01:00) • Prioritizing based on corrosion risk and asset criticality • Forecasting surface failures
- Module 16: Workshop – Maintenance Plan from Inspection Data (02:00 – 03:30) • Translate inspection results into maintenance action

Day 5: QA/QC, Reporting, and Review

- Module 17: Quality Assurance in Fabric Maintenance (07:30 – 09:30) • Inspection hold points, contractor QC • Rework control and documentation
- Module 18: Reporting and Recommendations (09:45 – 11:15) • Structured formats, photographic records • Summary tables and charts
- Module 19: Lessons Learned from Case Studies (11:30 – 01:00) • Inspection lapses and consequences • Best practices from industry
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Module 20: Final Workshop – Full Inspection Review Simulation (02:00 – 03:30) • Review, document, and present inspection outcomes

Certification

Participants will receive a Certificate of Completion in Inspection and Monitoring in Fabric Maintenance, validating their ability to assess fabric conditions, apply professional inspection practices, and support proactive asset maintenance programs.

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.

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