**MAWA EVENTS**

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

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# ADVANCED ASSET INTEGRITY MANAGEMENT

*"Ensuring reliability, safety, and longevity of critical assets through advanced integrity practices"*

## Schedule

| Date | Venue | Fees (Face-to-Face) |
|---|---|---|
| 07 – 11 Dec 2026 | Istanbul, Turkey | USD 3495 per delegate |

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

## Introduction

Maintaining asset integrity is crucial for the safe and efficient operation of industrial and organizational assets. Advanced asset integrity management ensures that equipment, systems, and processes perform reliably throughout their lifecycle while minimizing risks, downtime, and operational costs.

This intensive five-day program provides participants with in-depth knowledge, tools, and methodologies to implement and maintain advanced asset integrity strategies. Participants will learn to assess, monitor, and manage asset performance while aligning practices with safety, compliance, and organizational objectives.

## Objectives

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

- Understand the principles of asset integrity and reliability management
- Identify potential asset risks and failure modes
- Implement integrity management systems and frameworks
- Monitor and evaluate asset performance and lifecycle
- Apply advanced techniques for inspection, maintenance, and risk mitigation
- Integrate integrity management into organizational operations
- Improve compliance, safety, and operational efficiency

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## Why Attend

- Gain expertise in advanced asset integrity management practices
- Learn techniques to enhance reliability and reduce asset failures
- Improve compliance with safety and regulatory standards
- Enhance operational efficiency and lifecycle management
- Network with industry professionals to share best practices
- Acquire practical skills for real-world asset integrity challenges

## Target Audience

This program is designed for:

- Asset integrity engineers and managers
- Reliability and maintenance professionals
- Operations and plant managers
- Risk, safety, and compliance officers
- Consultants and auditors in asset-intensive industries

## Individual Benefits

Key competencies that will be developed include:

- Mastery of advanced asset integrity management frameworks
- Skills to assess, monitor, and optimize asset performance
- Ability to identify and mitigate potential risks and failures
- Expertise in inspection planning and lifecycle management
- Knowledge of compliance and regulatory requirements
- Enhanced decision-making for safe and efficient operations

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced operational downtime and asset failures
- Improved reliability and safety of critical assets
- Enhanced compliance with regulatory and industry standards
- Optimized maintenance and inspection strategies
- Better-informed decision-making in asset management
- Strengthened overall operational efficiency and sustainability

## Instructional Methodology

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

- Strategy Briefings – Principles of asset integrity, reliability, and lifecycle management
- Case Studies – Real-world examples of integrity management in critical assets
- Workshops – Hands-on exercises in risk assessment, monitoring, and maintenance planning
- Peer Exchange – Group discussions on challenges and lessons learned
- Tools – Templates and checklists for inspection, monitoring, and performance evaluation

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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: Fundamentals of Asset Integrity

Module 1: Introduction to Asset Integrity (07:30 – 09:30)

- Overview of asset integrity management
- Importance of reliability and performance

Module 2: Asset Lifecycle and Criticality (09:45 – 11:15)

- Lifecycle phases and critical asset identification
- Risk-based asset prioritization

Module 3: Integrity Management Frameworks (11:30 – 01:00)

- Standards and industry best practices
- Organizational roles and responsibilities

Module 4: Workshop – Asset Assessment (02:00 – 03:30)

- Hands-on exercises in asset criticality and lifecycle analysis

Day 2: Risk Assessment and Failure Analysis

Module 1: Advanced Risk Assessment (07:30 – 09:30)

- Identifying potential failures and threats
- Risk scoring and prioritization techniques

Module 2: Failure Modes and Effects Analysis (09:45 – 11:15)

- FMEA methodology for asset integrity
- Identifying root causes and preventive measures

Module 3: Reliability-Centered Maintenance (11:30 – 01:00)

- Strategies to enhance asset reliability
- Predictive and preventive maintenance

Module 4: Workshop – Risk and FMEA Exercises (02:00 – 03:30)

- Hands-on application of risk assessment and FMEA

Day 3: Inspection and Monitoring Strategies

Module 1: Inspection Planning and Techniques (07:30 – 09:30)

- Inspection types and intervals
- Non-destructive testing methods

Module 2: Condition Monitoring (09:45 – 11:15)

- Vibration analysis, thermal imaging, and other techniques
- Monitoring systems for early detection of failures

Module 3: Data Analysis and Reporting (11:30 – 01:00)

- Interpreting inspection data
- Decision-making based on condition monitoring

Module 4: Workshop – Monitoring & Inspection Plans (02:00 – 03:30)

- Practical exercises to develop inspection schedules

Day 4: Maintenance Optimization and Compliance

Module 1: Maintenance Strategies (07:30 – 09:30)

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Optimizing preventive and predictive maintenance

- Resource allocation and planning

Module 2: Regulatory and Safety Compliance (09:45 – 11:15)

- Compliance with international and local standards
- Safety considerations in asset management

Module 3: Continuous Improvement in Asset Integrity (11:30 – 01:00)

- KPIs and performance metrics
- Lessons learned and benchmarking

Module 4: Workshop – Maintenance & Compliance Planning (02:00 – 03:30)

- Hands-on exercises for improving maintenance and compliance

Day 5: Strategic Asset Integrity Management

Module 1: Integrating Asset Integrity into Operations (07:30 – 09:30)

- Strategic alignment of asset management with business objectives
- Decision-making frameworks

Module 2: Performance Optimization and ROI (09:45 – 11:15)

- Measuring asset performance and cost-effectiveness
- Evaluating return on investment

Module 3: Case Studies and Lessons Learned (11:30 – 01:00)

- Real-world examples of successful integrity management
- Best practices and key takeaways

Module 4: Workshop & Course Wrap-Up (02:00 – 03:30)

- Capstone project on asset integrity strategy
- Peer review, discussion, and final Q&A

## Certification

Participants will receive a Certificate of Completion in Advanced Asset Integrity Management, validating their expertise in ensuring asset reliability, safety, and performance through advanced integrity management practices.

## 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**<br>Interested in running this course for your team?<br>Please contact us: | TEL:<br>**+601116373203** | EMAIL:<br>**info@mawaevents.net** |
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