

ASSET MANAGEMENT INCLUDING, MATERIALS, CORROSION, INTEGRITY MANAGEMENT

“Maximizing Asset Value Through Lifecycle Integrity, Material Selection, and Proactive Risk Management”

Schedule

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

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

Introduction

This intensive program provides a comprehensive view of modern asset management practices integrating material performance, corrosion control, and integrity assurance. Participants will learn how to implement effective systems for maximizing asset reliability and lifecycle performance—across oil & gas, energy, utilities, manufacturing, and infrastructure sectors. The course covers global standards such as ISO 55000, risk-based inspection (RBI), corrosion engineering, and data-driven maintenance planning.

Objectives

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

- Understand the fundamentals of asset management systems and ISO 55000
- Identify material degradation mechanisms and corrosion types
- Apply risk-based integrity management approaches
- Align maintenance strategies with asset criticality and risk exposure
- Plan and execute corrosion mitigation strategies and condition monitoring
- Integrate materials, inspection, and asset data for informed decision-making

Why Attend

- Learn how to prevent unplanned shutdowns and asset failures
- Build cross-functional knowledge of engineering, operations, and risk
- Improve cost efficiency and ROI on asset-heavy operations
- Protect personnel, environment, and company reputation with better control
- Gain an actionable roadmap for implementing asset integrity systems

Target Audience

- Asset Managers & Reliability Engineers
- Corrosion Engineers & Materials Specialists
- Integrity & Maintenance Engineers
- Plant Managers & Facilities Engineers
- HSE, Risk Management, and QA/QC Professionals
- Inspection, Operations, and Technical Services Personnel

Individual Benefits

- Strengthen your multidisciplinary understanding of asset lifecycle management
- Build practical competency in corrosion risk, RBI, and materials reliability
- Advance your technical career in high-value, safety-critical industries
- Gain tools to lead inspection planning, audits, and asset review processes

Organizational Benefits

- Improve asset utilization, reliability, and lifecycle economics
- Reduce maintenance costs and unplanned downtime
- Improve compliance with safety and environmental regulations
- Enhance team alignment across engineering, maintenance, and operations
- Build a risk-based culture and data-driven integrity framework

Instructional Methodology

- Expert-led presentations with real-world engineering case studies
- Interactive group exercises and workshops on RBI and condition monitoring
- Video demonstrations of corrosion types and inspection tools
- Templates, checklists, and frameworks for direct workplace application
- Pre- and post-assessment tools for measuring participant knowledge gain

Course Outline

DETAILED 5-DAY COURSE OUTLINE (Customizable) Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Asset Management Foundations and ISO 55000

- Module 1 (07:30 – 09:30): Principles of Asset Management and Lifecycle Strategy
- Module 2 (09:45 – 11:15): Introduction to ISO 55000 and Asset Risk Management
- Module 3 (11:30 – 01:00): Asset Criticality Analysis and Asset Data Hierarchies

Day 2: Materials Engineering and Corrosion Fundamentals

- Module 4 (07:30 – 09:30): Properties and Selection of Materials for Harsh Environments
- Module 5 (09:45 – 11:15): Corrosion Mechanisms: Uniform, Galvanic, Pitting, Crevice, MIC
- Module 6 (11:30 – 01:00): Corrosion Monitoring Techniques and Sensors

Day 3: Risk-Based Inspection and Integrity Management

- Module 7 (07:30 – 09:30): Overview of Risk-Based Inspection (API 580/581)
- Module 8 (09:45 – 11:15): Fitness-for-Service & Remaining Life Assessments
- Module 9 (11:30 – 01:00): Condition Monitoring and Inspection Planning

Day 4: Maintenance Strategy and Corrosion Control

- Module 10 (07:30 – 09:30): Maintenance Strategies: Preventive, Predictive, RCM
- Module 11 (09:45 – 11:15): Cathodic Protection, Coatings, and Chemical Inhibitors
- Module 12 (11:30 – 01:00): Failure Analysis and Root Cause Investigation

Day 5: Implementation, Audit, and Action Planning

- Module 13 (07:30 – 09:30): Integrating Asset Integrity into CMMS and ERP Systems
- Module 14 (09:45 – 11:15): Auditing Integrity Systems and Performance KPIs
- Module 15 (11:30 – 01:00): Workshop: Build a Facility Asset Integrity Roadmap

Certification

Upon completion, delegates will receive a Certificate of Completion for: "Asset Management Including Materials, Corrosion & Integrity Management"

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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- **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?

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