



Asset Reliability & Maintenance Technology Essentials

12 - 16 Oct 2025
Amman



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Ref.: 200_49133 **Date:** 12 - 16 Oct 2025 **Location:** Amman **Fees:** 4100 **Euro**

Course Overview:

The course is a cutting-edge program designed to empower maintenance professionals with the most effective techniques in today's industry. Participants will master Maintenance Best Practices, Maintenance Planning, Maintenance Scheduling, and Predictive Maintenance Techniques while applying modern Preventive Maintenance Strategies and Condition Monitoring solutions. Participants will gain real-world skills in optimising asset lifecycles through in-depth study of Maintenance KPIs and Metrics, Asset Reliability Strategies, and Reliability Centred Maintenance RCM frameworks. Practical workshops on Maintenance Root Cause Analysis, Failure Mode and Effects Analysis FMEA, and Criticality Analysis of Assets will ensure a thorough understanding of maintenance risk and performance improvement. In today's digital landscape, understanding CMMS Implementation Best Practices, Digital Asset Management Systems, Predictive Analytics in Maintenance, and Technology Trends in Asset Management is critical. This course, rooted in standards from the provided references and materials, ensures graduates are ready to lead asset-intensive organizations toward sustainable, data-driven maintenance excellence.

Target Audience:

- Maintenance Engineers
- Reliability Engineers
- Asset Managers
- Plant Managers
- Maintenance Planners and Schedulers
- CMMS Administrators
- Facilities Managers
- Technical Operations Leaders

Targeted Organizational Departments:

- Maintenance and Reliability Departments
- Asset Management Divisions
- Facilities and Plant Operations
- Digital Transformation Offices
- Engineering and Technical Services
- Risk Management and Compliance Units
- Corporate Sustainability Teams

Targeted Industries:

- Oil & Gas
- Manufacturing
- Power Generation
- Chemicals and Petrochemicals
- Transportation and Logistics
- Utilities and Energy
- Food & Beverage Production
- Healthcare Facilities and Pharma Manufacturing

Course Offerings:

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

- Design and implement Preventive Maintenance Strategies and Predictive Maintenance Techniques.
- Set up Condition Monitoring in Maintenance programs using vibration analysis, thermography, and ultrasonic testing.
- Develop and use Maintenance KPIs and Metrics to improve reliability.
- Conduct Root Cause Analysis RCA and Failure Mode and Effects Analysis FMEA for equipment failures.
- Deploy and optimize CMMS and Enterprise Asset Management Systems.
- Apply Criticality Analysis of Assets to prioritize maintenance work.
- Integrate Digital Asset Management Systems for modern maintenance operations.
- Lead data-driven maintenance initiatives through Predictive Analytics in Maintenance and Maintenance Risk Assessments.
- Understand and leverage Technology Trends in Asset Management for sustainable practices.

Training Methodology:

This course employs an engaging mix of methodologies to ensure full learning transfer:

- **Case Studies:** Real-world applications of maintenance failures and success stories.
- **Workshops:** Group activities designing Preventive and Predictive Maintenance Programs.
- **Simulations:** CMMS workflow setups and asset management exercises.
- **Interactive Sessions:** Scenario-based discussions focusing on digital transformation in maintenance.
- **Feedback Sessions:** Regular participant feedback for adaptation and reinforcement.

Course Toolbox:

- Comprehensive Course ebook
- CMMS Sample Templates
- Criticality Analysis Checklists
- Preventive Maintenance Task Libraries
- FMEA Worksheets
- KPI Dashboards for Maintenance and Asset Management
- Case Studies from Industry Standards

Course Agenda:

Day 1: Fundamentals of Maintenance and Reliability

- **Topic 1:** Introduction to Maintenance and Reliability Best Practices
- **Topic 2:** Building a World-Class Maintenance and Reliability Program
- **Topic 3:** Developing and Managing Effective Preventive Maintenance Strategies
- **Topic 4:** Understanding Predictive Maintenance Techniques for Asset Health
- **Topic 5:** Integrating Reliability Engineering Fundamentals into Operations
- **Topic 6:** Critical Success Factors in Maintenance Performance Improvement
- **Reflection & Review:** Key Concepts in Aligning Maintenance with Business Goals

Day 2: Effective Maintenance Planning and Scheduling

- **Topic 1:** Benefits of Proactive Maintenance Planning and Scheduling
- **Topic 2:** Core Planning Principles and Work Order Systems
- **Topic 3:** Daily and Weekly Maintenance Scheduling Techniques
- **Topic 4:** Strategies for Work Order Management and Optimization
- **Topic 5:** Managing Preventive, Predictive, and Project Work within CMMS
- **Topic 6:** Using KPIs to Improve Scheduling Effectiveness and Compliance
- **Reflection & Review:** Transitioning from Reactive to Planned Maintenance

Day 3: Practical Reliability Strategies and Tools

- **Topic 1:** Understanding the Basics of Maintenance and Reliability Engineering
- **Topic 2:** Setting Up Reliability-Based Preventive Maintenance Programs
- **Topic 3:** Applying Predictive Maintenance Techniques Vibration, Thermography, Tribology, Ultrasonics
- **Topic 4:** Performing Root Cause Analysis RCA and Failure Mode and Effects Analysis FMEA
- **Topic 5:** Conducting Criticality Analysis of Assets for Prioritization
- **Topic 6:** Measuring and Managing Maintenance KPIs through Dashboards
- **Reflection & Review:** Leveraging Lean Reliability and Total Productive Maintenance TPM



Day 4: Digital Asset Management in Maintenance

- **Topic 1:** Introduction to Digital Asset Management DAM and Its Role in Maintenance
- **Topic 2:** Implementing Enterprise Asset Management EAM Systems
- **Topic 3:** Digital Transformation of Maintenance Workflows
- **Topic 4:** Best Practices in Metadata Management for Asset Tracking
- **Topic 5:** Managing Digital Maintenance Records, Drawings, and Manuals
- **Topic 6:** Leveraging Predictive Analytics and AI in Maintenance Decision-Making
- **Reflection & Review:** Building a Future-Ready Digital Maintenance Ecosystem

Day 5: Integrating and Optimizing Maintenance Systems

- **Topic 1:** Developing a Comprehensive Maintenance and Asset Management Strategy
- **Topic 2:** Risk-Based Maintenance Planning and Emergency Maintenance Management
- **Topic 3:** Optimizing CMMS Systems for Maximum Asset Performance
- **Topic 4:** Sustainable Maintenance Practices and Green Asset Management
- **Topic 5:** Key Success Metrics for Maintenance and Asset Management Programs
- **Topic 6:** Future Technology Trends Impacting Maintenance and Reliability
- **Reflection & Review:** Final Capstone Project: Designing a Full Maintenance Program Blueprint

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

No formal prerequisites are required. However, a basic understanding of plant operations, engineering principles, or previous exposure to maintenance or asset management is highly recommended.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

Why is integrating Digital Asset Management DAM important in modern maintenance programs?

As maintenance management shifts toward digital transformation, Digital Asset Management Systems DAM provide centralized control of technical assets like manuals, drawings, and equipment history. This integration enhances access, speeds up maintenance processes, improves version control, and optimizes asset utilisation.



How This Course is Different from Other Maintenance Courses:

This course combines traditional Maintenance Best Practices with advanced Predictive Maintenance Techniques, Condition Monitoring, CMMS Implementation, and Digital Asset Management Systems. Unlike many programs that focus only on mechanical techniques, this course integrates Data-Driven Maintenance Decisions, Maintenance KPIs and Metrics, and Technology Trends in Asset Management for a future-ready approach. Using insights directly drawn from top-tier resources such as the *Maintenance Planning and Scheduling Handbook*, *Rules of Thumb for Maintenance and Reliability*, and *Digital Asset Management Executive Guide*, the course delivers a well-rounded, actionable learning experience, ensuring participants leave ready to implement cutting-edge maintenance and asset management strategies in real-world environments.



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Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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