

EXCELLENCE IN MAINTENANCE & RELIABILITY MANAGEMENT

“Optimizing Asset Performance through World-Class Maintenance Strategies and Reliability Best Practices”

Schedule

Date	Venue	Fees (Face-to-Face)
18 - 19 Nov 2026	Doha - Qatar	USD 1995 per delegate

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

Introduction

In today's competitive industrial landscape, equipment reliability and maintenance effectiveness are directly linked to operational performance, safety, and profitability. Organizations that excel in maintenance and reliability management minimize downtime, extend asset life, and reduce total cost of ownership.

This intensive 2-day course equips professionals with globally recognized best practices for achieving maintenance excellence. Participants will gain insights into modern reliability-centered strategies, key performance indicators, failure analysis, and continuous improvement frameworks. Whether managing plant assets, leading maintenance teams, or supporting asset performance, this course delivers practical skills to elevate operational reliability.

Objectives

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

- Understand the principles of effective maintenance and reliability management
- Apply reliability-centered maintenance (RCM) and preventive/predictive strategies
- Use KPIs to monitor, analyze, and improve maintenance performance
- Identify failure modes and root causes to prevent recurring issues
- Align maintenance strategies with asset criticality and business goals

Why Attend

- Transform maintenance from a cost center to a strategic asset
- Apply proven reliability models to reduce downtime and optimize resources
- Learn to select and apply the right maintenance approach for each asset
- Enhance planning, scheduling, and performance monitoring practices
- Support long-term asset care and sustainable reliability culture

Target Audience

This program is designed for:

- Maintenance Managers and Engineers
- Reliability and Asset Management Professionals
- Operations and Plant Supervisors
- Mechanical, Electrical, and Instrumentation Engineers
- Anyone responsible for equipment performance and uptime

Individual Benefits

Key competencies that will be developed include:

- Maintenance strategy formulation (PM, PdM, RCM)
- Reliability analysis and continuous improvement techniques
- Work management, planning, and scheduling excellence
- Failure mode identification and performance optimization
- Use of KPIs and CMMS for data-driven decision-making

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Increased equipment uptime and reduced maintenance costs
- Improved resource planning and inventory optimization
- Higher safety, efficiency, and compliance performance
- Standardization of best practices across maintenance operations
- Better alignment between operations, maintenance, and business targets

Instructional Methodology

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

- Strategy Briefings - Industry frameworks for maintenance excellence and RCM
- Case Studies - Real-world success stories and turnaround initiatives
- Workshops - Asset criticality ranking, failure mode analysis, KPI design
- Peer Exchange - Group discussions on common maintenance challenges
- Tools - Maintenance strategy templates, audit checklists, KPI dashboards

Course Outline

DETAILED 2-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: Maintenance Strategy, Planning and Optimization

- Module 1: Principles of Maintenance and Reliability (07:30 – 09:30) • Definitions, pillars, and business case for excellence • Types of maintenance: reactive, preventive, predictive, and proactive
- Module 2: Reliability-Centered Maintenance (RCM) Concepts (09:45 – 11:15) • RCM principles, process steps, and implementation roadmap
- Module 3: Asset Criticality and Strategy Alignment (11:30 – 01:00) • Ranking assets and assigning appropriate maintenance methods
- Module 4: Workshop – Maintenance Strategy Builder (02:00 – 03:30) • Group activity: applying RCM to critical equipment

Day 2: Performance Measurement, Failure Analysis, and Improvement

- Module 5: Maintenance Planning, Scheduling, and CMMS (07:30 – 09:30) • Planning workflows, backlog control, and work order systems
- Module 6: Failure Analysis and Root Cause Techniques (09:45 – 11:15) • Failure modes, FMEA, and RCA for chronic and acute failures
- Module 7: Maintenance KPIs and Continuous Improvement (11:30 – 01:00) • MTTR, MTBF, schedule compliance, and cost control metrics
- Module 8: Workshop – KPI Dashboard Design (02:00 – 03:30) • Building a maintenance scorecard for operational performance

Certification

Participants will receive a Certificate of Completion in Excellence in Maintenance & Reliability Management, confirming their ability to implement strategic maintenance systems and lead reliability-driven improvement initiatives.

Why Choose MAWA Events

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