

CERTIFIED MAINTENANCE & RELIABILITY TRAINING PROGRAM

“Build the Core Competencies for Asset Reliability and Maintenance Excellence.”

Schedule

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

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

Introduction

The Certified Maintenance & Reliability Training Program is designed to equip professionals with the core principles, practices, and tools required to ensure the optimal performance of physical assets. The training covers preventive, predictive, and proactive maintenance strategies along with key reliability engineering techniques. Participants will gain a comprehensive understanding of industry best practices aligned with global standards like SMRP, ISO 55000, and RCM methodologies.

Objectives

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

- Apply maintenance and reliability concepts to enhance asset performance
- Develop effective maintenance plans using RCM and PM optimization
- Analyze equipment failures using root cause analysis and FMEA
- Use KPIs to evaluate maintenance effectiveness
- Foster a culture of continuous improvement and reliability

Why Attend

This program strengthens participants' abilities to manage equipment reliability, reduce unplanned downtime, and optimize asset lifecycle performance. It is ideal for professionals pursuing certification or advancement in maintenance, engineering, and operations.

Target Audience

- Maintenance Engineers and Reliability Engineers
- Plant Managers and Technical Supervisors
- Operations and Asset Management Professionals
- Mechanical, Electrical, and Instrumentation Technicians
- Professionals preparing for CMRP/CMRT or similar credentials

Individual Benefits

- Gain in-demand skills in maintenance and reliability management
- Improve technical and problem-solving competencies
- Enhance career prospects in plant and operations roles
- Prepare for global certifications (e.g., CMRP, CMRT)

Organizational Benefits

- Reduce maintenance costs and increase equipment uptime
- Improve asset reliability and operational efficiency
- Implement world-class maintenance systems and KPIs
- Develop a high-performance maintenance culture

Instructional Methodology

- Real-life case studies and group problem-solving
- Hands-on planning and analysis exercises
- Maintenance simulations and role-plays
- Industry-aligned tools and frameworks

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Day 1: Foundations of Maintenance & Reliability

- Module 1: Introduction to Maintenance & Reliability Best Practices (07:30 – 09:30)
- Module 2: Asset Lifecycle Management & ISO 55000 Overview (09:45 – 11:15)
- Module 3: Maintenance Strategies: Corrective, Preventive, Predictive (11:30 – 01:00)
- Module 4: Maintenance Program Planning and Scheduling (02:00 – 03:30)

Day 2: Reliability Engineering & Preventive Maintenance

- Module 1: Reliability-Centered Maintenance (RCM) Concepts (07:30 – 09:30)
- Module 2: Developing Preventive Maintenance Programs (09:45 – 11:15)
- Module 3: Condition Monitoring & Predictive Technologies (11:30 – 01:00)
- Module 4: Failure Modes, Effects & Criticality Analysis (FMECA) (02:00 – 03:30)

Day 3: Root Cause Analysis & Performance Measurement

- Module 1: Equipment Failure Analysis & RCA Tools (07:30 – 09:30)
- Module 2: The 5 Whys, Fishbone Diagrams, and Fault Trees (09:45 – 11:15)
- Module 3: Maintenance KPIs: MTTR, MTBF, Availability (11:30 – 01:00)
- Module 4: Reliability Metrics and Benchmarking (02:00 – 03:30)

Day 4: Maintenance Optimization Techniques

- Module 1: Total Productive Maintenance (TPM) & Autonomous Maintenance (07:30 – 09:30)
- Module 2: Maintenance Planning and Work Order Systems (09:45 – 11:15)
- Module 3: CMMS Implementation and Data Management (11:30 – 01:00)
- Module 4: Spare Parts & Inventory Optimization (02:00 – 03:30)

Day 5: Strategy, Culture & Final Assessment

- Module 1: Building a Reliability Culture & Leadership in Maintenance (07:30 – 09:30)
- Module 2: Developing Maintenance Strategy & Roadmaps (09:45 – 11:15)
- Module 3: Final Group Exercise: Reliability Improvement Project (11:30 – 01:00)
- Module 4: Final Assessment, Certification Wrap-Up, Action Plan (02:00 – 03:30)

Certification

Participants who successfully complete the program and final assessment will be awarded the Certified Maintenance & Reliability Training Certificate. This course aligns with SMRP's Body of Knowledge and provides strong foundational support for further certifications such as CMRP and CMRT.

Why Choose MAWA Events

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In-House / Customized Training

Interested in running this course for your team?
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