MAESTRO CONSULTANTS

MAINTENANCE, RELIABILITY & ASSET MANAGEMENT TECHNOLOGY BEST PRACTICES

COURSE OUTLINE 2025

Contact Us On :

Tel : +971 7 2042072 |

Email: training@maestrouae.net

Website: www.maestrouae.net

TRAINING TITLE

MAINTENANCE, RELIABILITY & ASSET MANAGEMENT TECHNOLOGY BEST PRACTICES

VENUE

DUBAI, UAE

DURATION

5 Days

DATES

30 June – 04 July 2025

PRICE

$5,250 per attendee including training material/handouts, morning/afternoon coffee breaks, and Lunch.

TRAINING INTRODUCTION

This 5-day course provides participants with a comprehensive overview of modern maintenance strategies, reliability-centered practices, and asset management technologies used in industrial and infrastructure environments. It focuses on aligning maintenance and reliability activities with business objectives, extending asset life, reducing downtime, and improving return on investment (ROI). The course introduces globally recognized frameworks such as ISO 55000 and explores best practices in planning, performance monitoring, and technology application for effective asset management.

TRAINING OBJECTIVES

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

- Understand the key concepts and strategies in maintenance and reliability management.
- Apply best practices in asset lifecycle planning and performance optimization.
- Evaluate and select appropriate maintenance techniques, including preventive, predictive, and condition-based approaches.

- Utilize reliability tools such as RCM (Reliability-Centered Maintenance) and FMEA (Failure Mode and Effects Analysis).
- Align asset management strategies with organizational goals and international standards (e.g., ISO 55000).

TRAINING AUDIENCE

- Maintenance and reliability engineers
- Asset managers and plant engineers
- Operations and production managers
- Facilities and utilities supervisors
- Technical auditors and project engineers
- Professionals involved in equipment lifecycle planning and maintenance optimization

TRAINING OUTLINE

Day 1: Introduction to Maintenance & Asset Management

- Definitions and scope of maintenance, reliability, and asset management
- Evolution from reactive to proactive maintenance
- Overview of asset lifecycle management
- Introduction to ISO 55000 and PAS 55 standards
- Maintenance maturity models and benchmarking

Day 2: Maintenance Strategies and Techniques

- Preventive vs. predictive vs. condition-based maintenance
- Total Productive Maintenance (TPM) concepts
- Maintenance planning and scheduling fundamentals
- Equipment criticality analysis and prioritization
- Work order systems and CMMS integration

Day 3: Reliability Engineering Principles

- Key reliability metrics: MTBF, MTTR, availability, OEE
- Root Cause Analysis (RCA) and Failure Modes and Effects Analysis (FMEA)
- Introduction to Reliability-Centered Maintenance (RCM)

- Life cycle costing and decision-making support tools
- Risk-based maintenance approaches

Day 4: Asset Performance Monitoring & Technology Tools

- Asset performance indicators and KPIs
- Condition monitoring tools: vibration, thermography, oil analysis
- Digital transformation in maintenance: IoT, AI, and predictive analytics
- Integration of SCADA, CMMS, and EAM systems
- Data-driven decision-making and reliability dashboards

Day 5: Implementation, Governance & Continuous Improvement

- Developing and implementing an asset management strategy
- Asset management policy and organizational roles
- Governance, compliance, and auditing frameworks
- Continuous improvement models (Kaizen, PDCA)
- Review of global best practices and future trends

TRAINING CERTIFICATE

MAESTRO CONSULTANTS Certificate of Completion for delegates who attend and complete the training course.

METHODOLOGY

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of "real life" issues in their organizations.
The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.