



Maintenance & Reliability Management

Preventive and Predictive Maintenance Excellence

Course Introduction

Effective Planned & Predictive Maintenance are critical for a successful company and an integral part of maintenance management strategies. This comprehensive 5-day course has been designed to benefit both qualified new professionals as well as experienced professionals who may be involved in the rollout of a comprehensive maintenance system or auditing an existing system. It covers all the steps required in developing a successful planning & predictive maintenance programme from system development until a well-managed Maintenance system is in place and operational.

Target Audience

- Facilities Engineer
- Facilities Engineering Manager
- Facilities Manager
- Facilities Specialist / Coordinator
- Health and Safety Engineer
- Maintenance Group Leader
- Maintenance Helper / Assistant
- Maintenance Manager
- Maintenance Superintendent
- Maintenance Supervisor
- Mechanical Reliability Engineer
- Network Reliability Engineer
- Operations and Maintenance Specialist
- Reliability Engineer

Learning Objectives

- Understanding how world-class organizations solve common planning problems
- Improving productivity through use of better, more timely information
- Implementing a practical and effective predictive maintenance effort
- Improving consistency and reliability of asset information
- Achieving more productive turnarounds
- Optimizing preventive and predictive maintenance strategies

Course Outline

• 01 DAY ONE

Introduction to Maintenance Management & Reliability

- Maintenance Management Fundamentals
- Managing Equipment Reliability
- Failure Mode Effect & Criticality Analysis
- Optimizing Maintenance Decisions

• 02 DAY TWO

Effective Maintenance Strategies

- Introduction to Maintenance Strategies
- Preventive Maintenance Strategy, selection and implementation
- Predictive Maintenance Strategy, selection and implementation
- Resources and Roles in Maintenance: Dedicated Manpower, Contractors and Specialist Tools

• 03 DAY THREE

Maintenance Management Leadership, Planning & Scheduling

- Roles & Responsibilities
- Job Planning
- Scheduling

• 04 DAY FOUR

- Failure Management & Achieving Excellence
- Potential Failure Analysis (PFA): Integration of PFA with FMECA & RCM , Understanding the P-F Interval and Decide which Technologies to Apply
- Vibration Analysis: Detectable Faults, Setup Parameters, Monitoring & Protection and On-Line or Off-Line
- Supporting Technologies: Infrared Thermography, Passive Ultrasonic and Oil Analysis
- Steps For Achieving Maintenance Excellence

• 05 DAY FIVE

- Maintenance Benchmarking and Performance Measurement
- Best Practice Maintenance Management
- CMMS Integration & Reporting
- Key Performance Indicators
- Review the course

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 16, 2025	June 20, 2025	5 days	4250.00 \$	UAE - Dubai
July 14, 2025	July 18, 2025	5 days	4950.00 \$	England - London
Nov. 17, 2025	Nov. 21, 2025	5 days	4250.00 \$	UAE - Dubai
Nov. 16, 2025	Nov. 20, 2025	5 days	4250.00 \$	Oman - Muscat