

Implementing Effective Preventive and Predictive

Maintenance Programmes

Venue Information

Venue: London UK

Place:

Start Date: 2025-12-22 **End Date:** 2025-12-26

Course Details

Net Fee: £4750.00 Duration: 1 week

Category ID: METC

Course Code: METC-17

Syllabus

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Introduction

Effective Planned & Predictive Maintenance are indispensable for a thriving company and are integral to maintenance management strategies like RCM, RBM TPM, and even 6-Sigma. This comprehensive 5-day program is designed to benefit both qualified new professionals and experienced professionals involved in implementing or auditing maintenance systems. It covers all steps required in developing successful Planning & Predictive Maintenance programs from system development to operational implementation.

Objectives

Leading industrial organizations are transitioning from reactive ("fix-it-when-it-breaks") management to predictive, proactive management ("anticipating, planning, and fixing-it-before-it-breaks"). This evolution necessitates well-

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- Implement a practical and effective predictive maintenance effort
- Improve consistency and reliability of asset information
- Achieve more productive turnarounds
- Optimize preventive and predictive maintenance strategies

The Contents

Day 1 - The Need for Maintenance

- Failure Mode Effect & Criticality Analysis (FMECA)
- Causes of Failures
- Likelihood & Severity of Failure Risk Analysis
- Reliability Centred Maintenance (RCM)
- Optimization of Maintenance Decisions
- Failure Pattern Identification
- Statistical Analysis of Failures
- Weibull Analysis
- Zero Base Budgeting
- Define the production requirement
- Define the maintenance requirement

Day 2 - Developing the CMMS

- Database Construction
- Installed Asset Base
- Hierarchical Structure
- Procedures and Plans
- Resources
- Dedicated Manpower
- Contractors
- Specialist Tools
- Maintenance Strategies
- Centralised/Decentralised
- Life/Emergency/Corrective/Planned
- Planned & Predictive

Day 3 - The Planning Function

- Roles & Responsibilities
- The Planners

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- Planning Corrective Work
- Integrate Planning with Procedures
- Resource Levelling
- Scheduling
- Long Term Scheduling with Production
- Medium & Short Term Scheduling
- Planning Department Interfaces

Day 4 - Predictive Maintenance

- Potential Failure Analysis (PFA)
- Integration of PFA with FMECA & RCM
- Understanding the P-F Interval
- Decide which Technologies to Apply
- Vibration Analysis
- Detectable Faults
- Setup Parameters
- Monitoring & Protection
- On-Line or Off-Line
- Supporting Technologies
- Infrared Thermography
- Passive Ultrasonics
- Oil Analysis

Day 5 - Control of the Maintenance Process

- CMMS Integration
- Predictive Maintenance Interface
- Optimising PM Kit Usage with PdM
- Operational planning
- Reporting
- Monthly PM & PdM reports for Management
- Financial Feedback Reports
- Budget Control
- Key Performance Indicators
- Reliability & statistics MTBF, Reliability etc.
- Work request backlog analysis
- Customer feedback analysis

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