

Implementing Effective Preventive and Predictive Maintenance Programmes Training

Description

Introduction

co.uk Effective Planned & Predictive Maintenance are critical for a successful company and an integral part of maintenance management strategies such as RCM, RBM TPM, and even 6-Sigma. This comprehensive 5-day programme 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.

Objectives

Leading industrial organizations are evolving away from reactive ("fix-it-when-it-breaks") management into predictive, productive management ("anticipating, planning, and fix-it-before-it-breaks"). This evolution requires well-planned and executed actions on several fronts.

- Understand how world-class organizations solve common planning problems
- Improve productivity through use of better, more timely information
- 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)

Optimisation 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

Maintenance Strategies

- Centralised/Decentralised
 Life/Emergency/Corrective/Planned
 Planned & Predictive

 The Planning Function

Day 3 - The Planning Function

• Roles & Responsibilities

- The Planners
- Job Initiators
- Maintenance Trades

Job Planning

- 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
- o On-Line or Off-Line

• Supporting Technologies

- Infrared Thermography
- Passive Ultrasonics
- Oil Analysis

Day 5 – Control of the Maintenance Process

CMMS Integration

- o 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

- www.acculearn.co.uk o Reliability & statistics - MTBF, Reliability etc.
- Work request backlog analysis
- Customer feedback analysis