

Maintenance Planning & Management Techniques - Advanced

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Energy Milestones Corporation Advancing Professionals to the next level

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Maintenance Planning & Management Techniques - Advanced



Overview

This training course is focused on comprehensively structuring the maintenance management environment. The key elements of maintenance management strategy, organisation, maintenance programmer development, work planning and control, decision models, maintenance auditing and performance measurement, continuous improvement, and other techniques required to implement a world-class maintenance practice will be covered. These key tools can be used to ensure the core disciplines are maintained, to drive improvement, identify best practices, and assist with the formulation of strategies.

Course Objectives

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

- Demonstrate the latest concepts and techniques required for managing or supervising a maintenance unit
- Examine the organisational and managerial considerations for practical maintenance work
- Evaluate your practices compared to those of others
- Apply techniques to measure Overall Equipment Effectiveness (OEE)
- Optimise preventive and predictive maintenance strategies
- Audit your maintenance operations
- Identify standard maintenance Key Performance Indicators (KPIs) and develop the maintenance department scorecard.
- Use the results to develop and improve a strategy.

Course Content

1. Introduction

- Objectives of maintenance management
- Evolution in Maintenance Management
- Common maintenance management problems
- Typical responsibilities of a maintenance manager



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Course Content

2. Continuous improvement practices in maintenance

- 5S Model to improve productivity and reliability
- Defining 5S and its principles
- Relationship between maintenance and production
- Determine needs and requirements
- Applying the principles of 5S to continuous improvement

3. Management of maintenance

- Maintenance strategies
- Overall Equipment Effectiveness
- Equipment failures and patterns
- Failure modes and effects analysis
- Emergency and preventive maintenance
- Common preventive maintenance tasks
- Predictive maintenance

4. Maintenance planning and control

- Maintenance workflow process
- Work requests and work orders
- Work planning and scheduling
- Backlog management
- Resource management
- Spare parts management
- Maintenance master budget
- Maintenance initiatives
- Replacement analysis of assets
- Maintenance operating budget
- Innovation and creativity

5. Maintenance Auditing and Improvement

- Introduction to Maintenance Auditing and Benchmarking
- The Maintenance Auditing Process
- Using Auditing and Benchmarking to Drive Improvement



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Course Content

6. Maintenance performance management

- Measuring and evaluating maintenance performance
- Common maintenance Key Performance Indicators (KPIs) and targets
- The maintenance balanced scorecard

Targeted Audience

- Maintenance team leaders and managers
- Maintenance and Reliability Engineers
- Maintenance supervisors
- Maintenance engineers
- Planning engineers
- Operations team leaders and managers

Course Methodology

Facilitated by an experienced professional trainer, this training course will be conducted as a highly interactive workshop session. A variety of training methodologies and facilitation techniques will be employed before and during the course, as applicable. These methods are aimed at enhancing individual and group interaction while maximising learning. Some of these methods are:

- Online Pre-post Test
- Colourful Visual Aids
- Gamification
- Self-Assessment Instruments
- Simulations
- Case Studies
- Videos
- Group Exercises & Discussions
- Role plays
- Indoor & Outdoor games

