



Course Outline

2 day

Maintenance Planning

(2 day - MPC)

Objective

To provide participants with the knowledge and skills required to improve maintenance practices.

Benefits

1. Achieve maximum maintenance effectiveness through effective planning and scheduling activities.
2. Become Proactive rather than Reactive in carrying out maintenance activities.
3. Increase equipment Availability and Reliability.
4. Improve plant safety and profitability.
5. Develop and implement maintenance strategies ensuring efficient use of available manpower.

Who Should Attend

Managers, Maintenance Planners and Schedulers, Maintenance Superintendents, Supervisors, Team Leaders and Production Personal who develop and implement the maintenance plan or interface with the Work Management System.

1. Maintenance Concepts

What is maintenance?
Definition of maintenance
The evolution of maintenance
Repair man to Maintenance Professional
How maintenance fits into the "big picture"
The Maintenance Management Asset Management relationship

2. Understanding Reliability, Availability and Maintainability

MTBF and MTTR
The relationship between Reliability, Availability and Maintainability
Calculating RAM



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3. Maintenance Costs

Direct and indirect costs of maintenance
Primary costs
Secondary costs
The maintenance cost curves
Is your maintenance investment appropriate?

4. Work Management Systems

What is a Work Management System?
The importance of the Work Management System
Work Management Sub Processes
Identifying Work
Planning Work
Scheduling Work
Executing Work
Analysing Performance
Recording History
The Work Management System

5. Planning and Scheduling Functions

What is planning?
The Work Order
Planning considerations
What constitutes a fully planned job?
What is scheduling?
Prioritising tasks
The Rolling Schedule process
Managing Backlog
Managing Forward load
Creating Gantt charts
Identifying dependencies and critical path
Resource Levelling and the Continuous Improvement Cycle (PDCA)

6. Maintenance Strategy Development

Equipment hierarchy structure
Understanding asset criticality
Determining asset failure
Functional Failure
Failure Modes
Root Causes of Failure
Failure Patterns
Maintenance strategy and action selection
Preventive actions
Predictive actions
Run to Failure
Failure Finding Tasks
Re-engineering
Task consolidation

7. Critical Path Analysis

Creating Network Diagrams
Identifying Critical Path
Identifying Free Float

8. Key Performance Indicators

The KPI Model
Typical KPIs