Maintenance, Planning, Scheduling & Control Mastery Course

2026 □□□□□□□ 11 – □□□□□□□ 30
Casablanca (Morocco)

UK Traininig
PARTNER



Maintenance, Planning, Scheduling & Control Mastery Course

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Why This Course

In asset-intensive industries, effective maintenance planning and scheduling are essential to achieving operational excellence. Organizations rely on maintenance teams not only to fix equipment, but to prevent failures, optimize asset lifecycles, and ensure smooth, reliable production. When done well, maintenance planning reduces downtime, cuts costs, enhances safety, and extends equipment life.

The Maintenance Planning, Scheduling & Control Program is a comprehensive 2-week course designed to build advanced capability in strategic maintenance management. Participants gain practical tools, structured frameworks, and proven best practices to design, execute, and optimize maintenance programs that drive efficiency and improve asset performance. Through real-world case studies, hands-on exercises, and performance-based techniques, attendees will be prepared to elevate maintenance operations to world-class standards.

What You'll Learn and Practice

By completing this program, participants will be able to:

- Develop maintenance strategies aligned with organizational and operational goals
- Master work order management, prioritization, and backlog control
- Design and implement preventive and predictive maintenance systems
- Optimize scheduling, resource allocation, and maintenance workflows
- Apply KPIs and performance measurement tools for continuous improvement

The Program Flow

Day 1 - Foundations of Maintenance Management

- Overview of maintenance management principles
- Types of maintenance strategies: reactive, preventive, predictive, proactive
- Asset lifecycle management and reliability concepts
- Maintenance department roles, structures, and responsibilities



Day 2 - Work Order Management

- Work order systems, processes, and documentation
- Prioritization frameworks for critical and non-critical tasks
- Work order lifecycle: planning to closure
- Effective backlog analysis and reduction methods

Day 3 - Maintenance Planning Fundamentals

- Core planning principles and industry best practices
- Developing job plans and task lists
- Resource estimation: manpower, tools, materials
- Planning for corrective, preventive, and predictive activities

Day 4 - Effective Maintenance Scheduling

- Scheduling principles and workflow management
- Long-term and short-term scheduling techniques
- Master scheduling and weekly planning cycles
- Managing constraints and dependencies in scheduling

Day 5 - Preventive Maintenance Optimization

- Building a robust preventive maintenance PM program
- Selecting PM tasks and determining ideal frequencies
- Integrating condition-based maintenance into PM routines
- PM auditing, optimization, and continuous improvement

Day 6 - Predictive Maintenance Strategies

- Introduction to predictive maintenance PdM concepts
- Condition monitoring tools and technologies
- Data interpretation and reliability-based diagnostics
- Steps to designing and implementing a PdM program

Day 7 - Maintenance Inventory & Procurement

- Spare parts analysis and classification
- Inventory optimization and stock level control
- Procurement strategies for maintenance materials
- Vendor management, evaluation, and partnerships



Day 8 - Maintenance Performance Measurement

- Key Performance Indicators KPIs for maintenance excellence
- Benchmarking against industry standards
- Performance dashboards and reporting structures
- Continuous improvement and root-cause analysis techniques

Day 9 - Maintenance Cost Control

- Budgeting methods for maintenance operations
- Cost tracking, estimation, and variance control
- Life cycle costing for long-term asset decisions
- Calculating maintenance ROI and financial justification

Day 10 - CMMS: Computerized Maintenance Management Systems

- CMMS functions and system selection criteria
- Data integrity, coding structures, and asset records
- Best practices for CMMS implementation
- Using CMMS analytics to inform strategic decisions

Practical Wins for Participants

Participants will finish this program able to:

- Build a customized maintenance strategy aligned with operational objectives
- Establish efficient work order systems and structured scheduling processes
- Implement preventive and predictive maintenance programs that minimize breakdowns
- Design a performance measurement system that drives ongoing improvement

Organizational Impact

Organizations will benefit through:

- Reduced downtime and more reliable asset performance
- Improved maintenance efficiency and reduced operational costs
- Stronger planning discipline and optimized resource utilization
- Data-driven decision-making supported by modern maintenance systems

Training Methodology

This program uses a practical, application-focused learning approach:



- Real-world industry case studies
- Hands-on exercises in planning, scheduling, and performance analysis
- Interactive discussions and group problem-solving
- Tools, templates, and models for immediate workplace application

Beyond the Course

Participants will return equipped to:

- Lead maintenance planning and scheduling with greater confidence
- Work collaboratively with operations, engineering, and procurement teams
- Drive reliability improvements across maintenance processes
- Build a culture of proactive, data-driven maintenance excellence

