

Advanced Maintenance Planning and Scheduling Masterclass

13 – 17 September 2027
Rome (Italy)

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Advanced Maintenance Planning and Scheduling Masterclass

Ref: 322864_217008 **Date:** 13 – 17 September 2027 **Location:** Rome (Italy) **Fees:** 5200 GBP

Course Description

This comprehensive 5-day course equips maintenance professionals with advanced strategies and tools for effective planning and scheduling. Participants will learn to optimize asset performance, reduce downtime, and enhance operational efficiency through strategic maintenance practices. The course covers critical aspects of maintenance management, from work order systems to shutdown planning and performance measurement.

Learning Objectives

- Develop and implement effective maintenance planning and scheduling strategies
- Optimize resource allocation and work order management
- Master techniques for preventive maintenance and failure management
- Enhance shutdown planning and execution processes
- Implement performance measurement and continuous improvement practices

Course Modules

Day 1: Foundations of Advanced Maintenance Management

- Evolution of maintenance strategies
- Work order systems and prioritization
- Resource optimization techniques
- Key Performance Indicators KPIs for maintenance

Day 2: Preventive Maintenance and Failure Management

- Developing effective PM programs
- Failure modes and effects analysis
- Condition-based maintenance strategies
- Reliability-centered maintenance principles

Day 3: Advanced Planning and Scheduling Techniques

- Long-term maintenance planning
- Short-term scheduling optimization
- Resource leveling and constraints management
- Integration of maintenance and operations schedules

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A graphic of a chessboard with several chess pieces. A large gold king piece is in the foreground, with a silver pawn and a silver knight behind it. The board is checkered, and there are concentric circles in the background.

Day 4: Shutdown Planning and Execution

- Shutdown scope definition and work breakdown
- Critical path analysis for shutdowns
- Resource allocation for major maintenance events
- Risk management in shutdown planning

Day 5: Performance Measurement and Continuous Improvement

- Maintenance performance metrics and benchmarking
- Data analysis for maintenance optimization
- Continuous improvement methodologies
- Change management in maintenance organizations

Practical Wins for Participants

- Develop a customized maintenance planning and scheduling framework
- Create a comprehensive shutdown planning template
- Establish a set of relevant KPIs for maintenance performance
- Design a continuous improvement plan for maintenance processes

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