

# aractech

Global Learning for Operational Leaders



**MAINTENANCE AND ENGINEERING**

## Maintenance Planning, Scheduling and Control

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# Course content

## Why Attend

Maximizing assets availability and reliability with the optimal cost are two conflicting objectives that each maintenance department needs to achieve. Maintenance planning and scheduling is the first step needed to assist you in achieving these objectives. Maintenance planning and scheduling is not only about using project management software to schedule tasks. Beside planning and scheduling activities the planner needs to ensure that all logistics are provided for. The planner will also need to be engaged in the financial evaluation of maintenance initiatives. Once the planning is done right, the next step will be to ensure that all the work orders are executed as per the plan and in compliance with all Health, Safety and Environment (HSE) guidelines as well as company policies and procedures. In this course various techniques will be discussed that will assist you in due course to plan, schedule and control all your maintenance work orders for maximum effectiveness.

## Course Methodology

- The course uses a mix of interactive and hands-on techniques. Beside the brief presentations by the consultant and the participants, the thrust will be on real life work related situations to develop maintenance schedules for preventive and breakdown jobs, calculate re-order points and optimal quantities of spare parts, evaluate maintenance initiatives, and develop the right maintenance KPIs.

## Course Objectives

- Explain the challenges and objectives facing maintenance organizations today
- Demonstrate the importance of work order systems and use techniques for time estimations and priority assignments
- Prepare a preventive maintenance program
- Apply project management techniques to effectively manage major maintenance activities and shut downs
- Use capital budgeting techniques to evaluate maintenance capital expenditures
- Demonstrate understanding of how to maintain the optimal stock levels of spare parts to ensure operational continuity

## Target Audience

- Managers, supervisors and planners responsible for maintenance planning, scheduling and control activities.
- Target Competencies

- Maintenance theory and practice
- Maintenance work processes

# Course outline

## Detailed course outline

Module-by-module outline for Maintenance Planning, Scheduling and Control.

### Module 1 - Objectives of maintenance

- Definition of maintenance and asset management
- Challenges and objectives of maintenance
- The modern maintenance strategy
- Maintenance windows
- Maintenance methods
- Types of maintenance

### Module 2 - The Work Order System

- Purpose of the Work Order (WO) system
- Information collected on a WO
- Job estimating methods
- Prioritizing maintenance work orders

### Module 3 - Preventive Maintenance (PM)

- What is Preventive Maintenance
- The importance of implementing a PM program
- Establishing schedules
- Breaking a facility into logical parts
- Developing an equipment list
- Developing equipment manuals

# Course outline

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Module-by-module outline for Maintenance Planning, Scheduling and Control.

### Module 4 - Planning and scheduling of major maintenance WOS and shutdowns

- The unique challenge of maintenance shutdowns
- Importance of a clear Work Order (WO) scope definition
- Work Breakdown Structure (WBS)
- Methods for building an effective maintenance database
- Critical Path Method (CPM)
- Work order crashing

### Module 5 - Controlling maintenance work

- Maintenance Key Performance Indicators (KPIs)
- Backlog indices
- Schedule compliance indices
- PM and emergency indices
- Generic maintenance indicators

# Seminar dates

## Available seminar dates

Live dates and pricing for Maintenance Planning, Scheduling and Control generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Rome	Classroom	€2,975
20 - 24 July 2026	Munich	Classroom	€2,415
3 - 7 August 2026	Amsterdam	Classroom	€2,975
7 - 11 September 2026	London	Classroom	€2,940
12 - 16 October 2026	Istanbul	Classroom	€1,995
9 - 13 November 2026	Vienna	Classroom	€2,975
14 - 18 December 2026	Barcelona	Classroom	€2,695

**Live online option**

Online delivery is available at €1,250.