



Maintenance & Reliability Management

## Advanced Maintenance Planning, Scheduling and Control

## Course Introduction

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This training course is designed to provide participants with the advanced concepts, techniques and best practices on maintenance planning, work control and scheduling. This course will highlight topics such as planning and scheduling tools, procedures, maintenance plan types, classification of maintenance equipment, work allocation, material requirements planning, and use of the computer maintenance management system.

## Target Audience

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- Maintenance & Reliability Engineers – Optimizing asset performance.
- Maintenance Managers & Supervisors – Enhancing planning and scheduling.
- Operations & Plant Managers – Ensuring efficient maintenance strategies.
- Asset & Facility Managers – Managing lifecycle costs and uptime.
- Supply Chain & Procurement Professionals – Ensuring timely spare parts availability.

## Learning Objectives

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- Gain the comprehensive understanding of the advanced concepts of maintenance planning, scheduling and work control
- Understand the key functions classifications of equipment maintenance and apply techniques.
- Master the methods and approaches involved in advanced maintenance management.
- Obtain an in-depth understanding of Total Productive Maintenance (TPM), maintenance planning and techniques for buildings.
- Utilize maintenance audit for internal benchmarking.

- Know how to maximize and utilize the computer maintenance management system.

## Course Outline

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- **01 DAY ONE**

- Review of Maintenance Concepts**

- Basic and Advanced functions of maintenance

- The need for maintenance in the business/industry

- Basic and advanced maintenance resources

- Classification of Equipment Maintenance and Techniques**

- Run-to-failure
    - Interval Based Maintenance
    - Predictive maintenance – Condition Maintenance
    - Proactive Maintenance
    - Reliability-base Maintenance (RBM)

- **02 DAY TWO**

- Advanced Maintenance Management**

- Maintenance Manager/Supervisor roles
    - Objectives of Maintenance Management
    - Advanced Maintenance Management Best Practices
    - Building and leading a Maintenance Management Team

## **Total Productive Maintenance (TPM)**

- Strategies for TPM
- Implementing TPM Action Plans

### **• 03 DAY THREE**

## **Advanced Maintenance Planning**

- Benefits and tools for Maintenance Planning
- The Maintenance Budget
- Maintenance Planning Best Practices

## **Techniques of Building Maintenance Planning and Scheduling**

- Prioritization of Maintenance jobs
- Failure classification
- Potential failure
- Planning huge overhauls
- Equipment replacement

### **• 04 DAY FOUR**

## **Planning of Spare Parts**

- Maintenance material control
- Materials requirement planning (MRP)

## **Continuous Improvement in Maintenance**

- The Maintenance Auditing Process

- Maintenance Auditing Methodology
- Conducting Maintenance Audit

• **05 DAY FIVE**

**Maintenance Audit for Internal Benchmarking**

- Measuring and evaluating maintenance performance
- Maintenance Key Performance Indicators (KPI)

**Computer Maintenance Management System**

- Operational maintenance
- Outsourcing
- Work order and work request creation
- Shutdown management (pre-shutdown works, shutdown execution, post-shutdown)

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 18, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
June 23, 2025	June 27, 2025	5 days	4250.00 \$	UAE - Dubai
July 14, 2025	July 18, 2025	5 days	4950.00 \$	Spain - Madrid
Oct. 6, 2025	Oct. 10, 2025	5 days	4250.00 \$	UAE - Dubai

