

## Maintenance and Operation Planning

*Milan (Italy)*

*16 - 27 December 2024*

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## Maintenance and Operation Planning

Code: SC28 From: 16 - 27 December 2024 City: Milan (Italy) Fees: 7400 Pound

### Introduction

This advanced course in maintenance and operation planning aims to provide you with comprehensive knowledge and practical expertise in developing modern and efficient maintenance strategies. You will learn the latest concepts, techniques, and best practices in preventive maintenance and maintenance management. Through a combination of theoretical sessions, practical exercises, and case studies, you will acquire the necessary skills to optimize maintenance activities, reduce downtime, and ensure the smooth operation of equipment and facilities.

### Objectives

- Understand the importance of maintenance and operation planning in maximizing equipment reliability and availability.
- Explore the latest trends and best practices in preventive maintenance and maintenance management.
- Develop strategies for effective maintenance planning, scheduling, and resource allocation.
- Learn techniques for condition monitoring, failure analysis, and root cause identification.
- Implement predictive maintenance techniques and technologies, such as vibration analysis and thermography.
- Gain insights into maintenance performance metrics and key performance indicators KPIs.
- Develop skills in maintenance budgeting, cost control, and optimization.
- Understand the role of computerized maintenance management systems CMMS and enterprise asset management EAM software in modern maintenance practices.

### Course Outline

#### Day 1

##### Introduction to Maintenance and Operation Planning

- Importance of maintenance planning and its impact on equipment reliability
- Overview of maintenance strategies: reactive, preventive, predictive, and proactive
- Introduction to maintenance management systems and software tools

#### Day 2

##### Objectives and Benefits of Preventive Maintenance

- Fundamentals of preventive maintenance and its role in equipment longevity
- Developing preventive maintenance schedules based on equipment criticality

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) on it, set against a background of concentric circles.

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- Implementing condition-based maintenance techniques

### Day 3

#### Maintenance Planning and Scheduling

- Techniques for effective maintenance planning and scheduling
- Resource allocation and optimization in maintenance activities
- Key considerations in work order management

### Day 4

#### Failure Analysis and Root Cause Identification

- Understanding failure modes and effects analysis FMEA
- Root cause analysis RCA methodologies and tools
- Developing corrective and preventive action plans

### Day 5

#### Predictive Maintenance Technologies

- Introduction to predictive maintenance techniques and technologies
- Vibration analysis for equipment health monitoring
- Infrared thermography for detecting anomalies and hotspots

### Day 6

#### Maintenance Performance Metrics and KPIs

- Key performance indicators KPIs for measuring maintenance effectiveness
- Implementing performance measurement systems
- Analyzing maintenance data for continuous improvement

### Day 7

#### Maintenance Budgeting and Cost Control

- Budgeting techniques for maintenance activities
- Cost control strategies and optimization
- Total cost of ownership TCO analysis in maintenance decision-making

### Day 8

#### Computerized Maintenance Management Systems CMMS

- Overview of CMMS and EAM software
- Features and benefits of CMMS in maintenance management
- Implementation and utilization of CMMS in real-world scenarios

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) in gold and silver. The board is white and black, and the pieces are arranged on it. In the background, there are concentric white circles on a grey background.

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Day 9

Maintenance Organization and Team Management

- Organizational structures for maintenance departments
- Roles and responsibilities in the maintenance team
- Effective communication and collaboration in maintenance operations

Day 10

Maintenance Optimization and Continuous Improvement

- Strategies for optimizing maintenance processes and workflows
- Lean maintenance principles and practices
- Continuous improvement methodologies, such as Six Sigma and Kaizen

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