

# € TRAINING

Advanced Maintenance Strategies



22 December 2024 -  
2 January 2025  
Sharm El-Sheikh (Egypt)



# Advanced Maintenance Strategies

REF: O393 DATE: 22 December 2024 - 2 January 2025 Venue: Sharm El-Sheikh (Egypt) - Fee: 7590 Euro

## Introduction:

This training program is designed to equip participants with advanced methodologies to optimize maintenance practices in various industries. It empowers them to lead effective maintenance strategies aligned with organizational goals.

## Program Objectives:

By the end of this program, participants will be able to:

- Develop a comprehensive understanding of maintenance management principles.
- Enhance skills in developing and implementing maintenance strategies.
- Improve operational efficiency through effective maintenance planning.
- Foster a culture of continuous improvement in maintenance practices.
- Prepare to address challenges in maintenance operations effectively.

## Target Audience:

- Maintenance managers and supervisors.
- Plant engineers and reliability professionals.
- Operations and production managers.
- Technical staff involved in asset management.
- Employees seeking to enhance their knowledge in maintenance strategies.

## Program Outline:

### Unit 1:

#### Fundamentals of Maintenance Management:

- Introduction to maintenance management.
- Importance of maintenance in operational reliability.
- Maintenance strategies and methodologies.

- Role of maintenance in organizational success.
- Overview of key performance indicators KPIs in maintenance.

## Unit 2:

### Maintenance Planning and Scheduling:

- Principles of maintenance planning.
- Techniques for effective scheduling.
- Developing maintenance schedules.
- Tools and software for planning and scheduling.
- Best practices in maintenance planning.

## Unit 3:

### Reliability Centered Maintenance RCM:

- Introduction to RCM principles.
- Implementing RCM in maintenance strategies.
- Failure modes and effects analysis FMEA.
- Risk-based maintenance RBM.
- Case studies on successful RCM implementation.

## Unit 4:

### Predictive Maintenance Technologies:

- Overview of predictive maintenance PdM.
- Techniques and technologies in PdM vibration analysis, thermal imaging.
- Condition monitoring systems.
- Benefits and challenges of PdM.
- Integration of PdM with maintenance strategies.

## Unit 5:

## Preventive Maintenance Strategies:

- Introduction to preventive maintenance PM.
- Types of PM tasks time-based, usage-based.
- Developing a PM program.
- PM optimization techniques.
- Case studies on effective PM strategies.

## Unit 6:

### Total Productive Maintenance TPM:

- Principles and pillars of TPM.
- Implementing TPM in manufacturing environments.
- Autonomous maintenance.
- Planned maintenance.
- TPM as a culture change initiative.

## Unit 7:

### Asset Management and Life Cycle Costing:

- Asset management principles.
- Life cycle costing LCC analysis.
- Techniques for LCC calculation.
- Decision-making in asset replacement.
- Optimizing asset performance and cost efficiency.

## Unit 8:

### Maintenance Budgeting and Cost Control:

- Developing a maintenance budget.
- Cost control strategies in maintenance.
- Variance analysis and corrective actions.

- Tools for budgeting and cost tracking.
- Achieving cost-effective maintenance operations.

## Unit 9:

### People Management in Maintenance:

- Leadership skills for maintenance managers.
- Building high-performance maintenance teams.
- Training and development in maintenance.
- Motivation and engagement strategies.
- Handling interpersonal conflicts in maintenance teams.

## Unit 10:

### Continuous Improvement in Maintenance:

- Principles of continuous improvement CI.
- Lean maintenance principles and practices.
- Six Sigma in maintenance.
- Kaizen events and improvement projects.
- Developing a culture of CI in maintenance.