

# € TRAINING

Optimizing Maintenance and Reliability



22 - 26 December 2024  
Dubai (UAE)



# Optimizing Maintenance and Reliability

REF: O1333 DATE: 22 - 26 December 2024 Venue: Dubai (UAE) - Fee: 5830 Euro

## Introduction:

This training program provides participants with essential strategies and techniques to enhance maintenance and reliability practices. It empowers them to achieve sustainable and cost-effective maintenance management.

## Program Objectives:

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

- Understand the principles of maintenance and reliability management.
- Gain proficiency in implementing preventive and predictive maintenance.
- Learn techniques for optimizing equipment performance and reliability.
- Develop skills in cost analysis and reduction strategies.
- Implement best practices for sustainable maintenance management.

## Target Audience:

- Maintenance managers and supervisors.
- Reliability engineers and maintenance planners.
- Operations managers and plant engineers.
- Maintenance technicians and specialists.
- Professionals seeking to improve maintenance efficiency and equipment reliability.

## Program Outline:

### Unit 1:

#### Fundamentals of Maintenance and Reliability:

- Introduction to Maintenance and Reliability Principles.
- Types of Maintenance: Reactive, Preventive, Predictive, and Proactive.
- Reliability-Centered Maintenance RCM Concepts.

- Key Performance Indicators KPIs for Maintenance.
- Maintenance Planning and Scheduling.

## Unit 2:

### Preventive and Predictive Maintenance:

- Principles of Preventive Maintenance PM.
- Developing and Implementing PM Programs.
- Predictive Maintenance PdM Techniques and Technologies.
- Condition Monitoring and Diagnostic Tools.
- Case Studies on Successful PM and PdM Implementation.

## Unit 3:

### Equipment Performance Optimization:

- Techniques for Optimizing Equipment Performance.
- Root Cause Analysis RCA for Failure Prevention.
- Maintenance Best Practices for Critical Equipment.
- Lubrication and Vibration Analysis.
- Reliability Improvement Strategies and Case Studies.

## Unit 4:

### Cost Analysis and Reduction Strategies:

- Life Cycle Cost Analysis LCCA for Maintenance.
- Identifying and Reducing Maintenance Costs.
- Cost-Benefit Analysis of Maintenance Activities.
- Budgeting and Financial Planning for Maintenance.
- Tools and Software for Maintenance Cost Management.

## Unit 5:



## Best Practices and Sustainable Maintenance Management:

- Implementing Best Practices in Maintenance Management.
- Continuous Improvement in Maintenance Processes.
- Training and Development for Maintenance Personnel.
- Benchmarking and Performance Metrics.
- Future Trends and Innovations in Maintenance and Reliability.