



Advanced Maintenance Management



2 - 6 December 2024



Barcelona (Spain)

# Advanced Maintenance Management

course code: E6020 From: 2 - 6 December 2024 Venue: Barcelona (Spain) - course Fees: 4500 Euro

## INTRODUCTION

This 5-day programme is focused on comprehensively structuring the maintenance management environment. The key elements of maintenance management strategy, organisation, maintenance programme development, work planning and control, decision models, maintenance auditing and performance measurement, continuous improvement, and other techniques required to implement a world-class maintenance practice will be covered. These key tools can be used to ensure the core disciplines are maintained, to drive improvement, identify best practices, and assist with the formulation of strategies.

## PROGRAMME OBJECTIVES

Leading industrial organizations are evolving away from reactive ("fix-it-when-it-breaks") management into predictive, productive management ("anticipating, planning, and fix-it-before-it-breaks"). This evolution requires well-planned and executed actions on several fronts. You will:

- Identify planning best practices and key elements for taking action on them
- Understand how world-class organizations solve common planning problems
- Evaluate your practices compared to those of others
- Improve the use of your information and communication tools
- Improve productivity through use of better, more timely information
- Create and preserve lead-time in work management and use it for planning and scheduling resources
- Improve consistency and reliability of asset information
- Optimize preventive and predictive maintenance strategies
- Audit your maintenance operations
- Use the results to develop and improvement strategy
- Establish Auditing and Performance Indicators as a key element of the maintenance strategy

The programme will impart an understanding of how such techniques can be applied as part of a broad systematic approach to proactively managing and improving maintenance

## TRAINING METHODOLOGY

Facilitated by an experienced maintenance specialist, this programme will be conducted as a highly interactive work session, encouraging participants to share their own experiences and apply the programme material to real-life situations. Case studies from different industries will be investigated. Programme size will be limited to 30 delegates in order to stimulate discussion and efficiency of subject coverage. Each delegate will receive an extensive reference manual, as well as case studies, while worked out solutions will be handed out to the delegates on conclusion of group discussions.

To ensure the concepts introduced during the programme are understood, they will be reinforced through a mix of learning methods, including lecture style presentation, open discussion, case studies, simulations and group work.

## PROGRAMME OUTLINE

### DAY 1 - Maintenance Management Strategy

- Maintenance in the Business Process
- Evolution in Maintenance Management
- The Maintenance Management Environment and the need for improvement
- An overview of various approaches to maintenance improvement
- The Maintenance Benchmarking Process
- Maintenance Benchmarking Methodology
- World-Class Maintenance Management
- Structure and content of Maintenance Management Strategy

### DAY 2 - Maintenance Plan: Define the workload

- Risk Priority Number
- The Criticality Matrix
- Failure Modes and Effects Analysis (FMEA)
- Consequences of Failure
- Failure Management Policies
- The application of RCM in the Development of Failure Management Policies
- Implementing Failure Management Policies
- Corrective Maintenance Planning
- Maintenance Logistics Planning
- Maintenance Task Detail Planning
- Maintenance Work Estimating

### DAY 3 - Maintenance Management Systems

- Maintenance Work Prioritisation
- Maintenance Work Flow
- Notifications
- Weekly Master Schedule
- Backlog Management

### DAY 4 - Maintenance Auditing and Improvement

- Introduction to Maintenance Auditing and Benchmarking
- Using Auditing and Benchmarking to drive improvement
- The Maintenance Auditing Process
- Maintenance Auditing Methodology
- Conducting a Maintenance Audit
- Interpreting Audit Results
- Using Auditing to Drive Improvement

### DAY 5 - Performance Indicators and Management Reporting

- Managing and Measuring Progress to Excellence
- Information and Control
- Management Levels and Information
- Maintenance Performance Indicators
- Management Reports
- Continuous Improvement in Maintenance

