

**Training Title**

**ADVANCED MAINTENANCE MECHANICAL & PROCESS PLANT EQUIPMENT SIZING**

**Training Duration**

**5 days**

**Training Venue and Dates**

ME490	Advanced Maintenance Mechanical & Process Plant Equipment Sizing	5	19-23 December, 2019	\$4,500	Dubai, UAE
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In any of the 5 star hotels. The exact venue will be informed once finalized.

**Training Fees**

- 4,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**TRAINING DESCRIPTION**

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.

**TRAINING OBJECTIVES**

Leading industrial organizations are evolving away from reactive (“fix-it-when-it-breaks”) management into predictive, proactive 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

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- 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

### WHO SHOULD ATTEND?

The course will be of major use for those professionals involved in areas related to various inspections, maintenance, engineering for reliability, production and design related engineers

### TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

### DAILY 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

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## 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

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## 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

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NOTE:

**Pre & Post Tests will be conducted**

**Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.**

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