



Maintenance & Reliability Management

Maintenance Auditing, Benchmarking & Performance Improvement

Course Introduction

This program looks at Maintenance Auditing and Benchmarking as two key tools that can be used as the basis for driving the improvement process in maintenance, by identifying best practices, gaps with current practices and assist with the formulation of strategies to bridge such gaps. In addition, we address how Auditing and Benchmarking can become an integral part of a maintenance management strategy by integrating such activities into Maintenance performance measures, key performance indicators and objective setting. Maintenance Auditing and Benchmarking is a hands-on, stimulating learning experience.

Standardized maintenance management

The program will be highly interactive, with opportunities to advance your opinions and ideas. Participation is encouraged in a supportive environment. To ensure the concepts introduced during the program are understood, they will be reinforced through a mix of learning methods, including lecture style presentation, open discussion, case studies and group work. This course covers all the essential skills necessary to understand how an effective and efficient maintenance function is implemented, supported and improved. This includes the use and application of a standardized maintenance management audit methodology consistent with the recognized maintenance excellence framework to assess the current state of maintenance and identify opportunities for improvement. Similarly, participants will learn how plan, conduct and interpret the results of a benchmarking study which has been adapted to the need of maintenance.

Target Audience

- Facilities Engineer
- Facilities Engineering Manager
- Facilities Manager
- Facilities Specialist / Coordinator
- Health and Safety Engineer
- Maintenance Group Leader
- Maintenance Helper / Assistant

- Maintenance Manager
- Maintenance Superintendent
- Maintenance Supervisor
- Mechanical Reliability Engineer
- Network Reliability Engineer
- Operations and Maintenance Specialist
- Reliability Engineer

Learning Objectives

- Learn to use Auditing and Benchmarking in order to improve Maintenance Management, Asset Performance and Reducing and Saving Costs.
- Understand the potential problems associated with auditing and Benchmarking and how to avoid them
- Analyze the Risks associated with transferring best practices from one situation to another and apply the Correct to tools to manage these risks in order to achieve a Successful Outcome
- Enhance your Experience and Skills with Fundamental Reliability and Maintenance Principles.
- Discover Leading Asset Management Practices, Methodologies and Technologies.
- Benchmark your Organizational Practices internally and Comparatively against others Companies.
- Better understand the Auditing Process and Applications of audit tools through practical reviews of case studies and actual audit results.
- Learn how to set up an auditing and managing programs.

Course Outline

• 01 DAY ONE

Module (01) Introduction and Foundation Concepts

- 1.1 Maintenance Management Environment

- 1.2 Various Approaches to Maintenance Improvement
- 1.3 Introduction to Auditing and Benchmarking
- 1.4 Auditing and Benchmarking to drive Improvement
- 1.5 Sustainable Approaches to Improvement
- 1.6 Understanding 7 QC Tools
- 1.7 Content and Compliance Supporting Performance

Module (02) Understating Data & Basic Statistics

- 2.1 Preparing Data for Analysis
- 2.2 Get New Perspectives on Data
- 2.3 Easy & Fast Charting
- 2.4 Tabling Techniques for Better Presentation
- 2.5 Good Data Vs Appropriate Data
- 2.6 Types of Data, Variations & Dispersion
- 2.7 Descriptive Statistics

• 02 DAY TWO

Module (03) Maintenance Auditing

- 3.1 The Maintenance Auditing Process
- 3.2 Maintenance Auditing Methodology
- 3.3 Conducting a Maintenance Audit
- 3.4 Interpreting Audit Results
- 3.5 Using Auditing to Drive Improvement

Module (04) Conducting Audits

- 4.1 Auditing Elements of Asset & Maintenance
- 4.2 Preparing for an Audit
- 4.3 Conducting and Audit Activities
- 4.4 Audit Reporting and Follow up
- 4.5 managing an Audit Schedule
- 4.6 Justifying Improvement Initiatives

• 03 DAY THREE

Module (05) Maintenance Benchmarking

- 5.1 Benchmarking Options
- 5.2 Pitfalls & How to avoid them
- 5.3 The maintenance Benchmarking Process
- 5.5 Maintenance benchmarking Methodology
- 5.6 Conducting a Maintenance Benchmarking Study

- 5.7 Best Practice Benchmarking and Benchmarks

Module (06) Improving of Maintenance Process

- 6.1 Integrating Auditing and Benchmarking
- 6.2 Establish Management Systems
- 6.3 Developing Key Performance Measures
- 6.5 Target Setting Methods and their Limitations
- 6.6 Benchmarking Key Suppliers
- 6.5 Measuring Asset and Maintenance Management
- 6.6 Formalizing Practices as Part of Operational Routine

• 04 DAY FOUR

Module (07) Asset and Maintenance Management

- 7.1 Asset management Strategy and Plans
- 7.2 Maintenance Strategies and Tactics
- 7.3 Work Management
- 7.4 System and Information
- 7.5 Spares and Materials
- 7.6 Organization and People

Module (08) Maintenance Performance Process

- 8.1 Prerequisites
- 8.2 Performance Planning
- 8.3 Performance Execution
- 8.4 Performance Review
- 8.5 Performance Renewal
- 8.6 Justifying Improvement Initiatives

• 05 DAY FIVE

Module (09) Sustainable Maintenance Performance

- 9.1 Introduction to Modern Practices
- 9.2 The SQC Performance Model
- 9.3 Reverse Risk Analysis
- 9.4 Maintenance/Operation Objectives
- 9.5 The Maintenance Cost Ratio
- 9.6 Complexity, Risk and Variability Models

Module (10) Maintenance Performance Improvement

- 10.1 Cross Referencing Operational

- 10.2 Data/Knowledge Base
- 10.3 Accuracy and Availability of Data /Cost Relationship
- 10.4 The Four Critical Stages of Data Maturity
- 10.5 Logical Critical Thinking vs. Lateral Divergent Thinking

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 12, 2025	May 16, 2025	5 days	4250.00 \$	UAE - Dubai
Aug. 11, 2025	Aug. 15, 2025	5 days	4950.00 \$	Italy - Milan
Dec. 1, 2025	Dec. 5, 2025	5 days	4250.00 \$	UAE - Dubai
May 11, 2025	May 15, 2025	5 days	4250.00 \$	Oman - Muscat