Introduction:
This advanced course focuses on thoroughly structuring the maintenance management environment, providing participants with the essential knowledge and skills needed to develop and execute a robust maintenance management strategy.

Throughout the course, participants will explore vital elements such as organization, maintenance program development, work planning and control, decision models, maintenance auditing, performance measurement, and continuous improvement. The course highlights the importance of maintaining core disciplines, driving enhancements, identifying best practices, and helping formulate strategies that elevate maintenance standards to a world-class level.

Participants will be encouraged to pursue a professional certification in maintenance management, which demonstrates their comprehensive knowledge and practical skills in advanced maintenance management systems, methodologies, and best practices. Upon completion, participants may be eligible to receive a certificate in maintenance management, distinguishing themselves as certified maintenance managers.

This course prepares individuals for advanced roles in maintenance management, enhancing their career progression while improving operational efficiency within their organizations.

Target Audience:

- Professionals involved in maintenance management.
- Professionals engaged in work planning and control.
- Maintenance supervisors.
- Maintenance engineers.
- Maintenance team leaders and managers.
- Operations team leaders and managers.

Course Objectives:
By the end of this course, participants will be able to:

1. Identify best practices in planning and the critical elements for taking action on them.
2. Understand how world-class organizations solve common planning issues.

3. Evaluate their own practices and compare them with industry standards.

4. Improve the use of information and communication tools.

5. Enhance productivity by using better, more timely information.

6. Create and preserve lead time in work management for planning and scheduling resources.

7. Improve the consistency and reliability of asset information.

8. Optimize preventive and predictive maintenance strategies.

9. Audit their maintenance operations and use the results to develop improvement strategies.

10. Establish performance indicators and auditing as essential elements of the maintenance strategy.

Targeted Competencies:
Upon completing the course, participants will have developed competencies in:

1. Asset management: adopting a business-oriented approach to maintenance management.

2. Utilization of Key Performance Indicators (KPIs) and balanced scorecards for accurate performance measurement.

3. Assessment of asset management maturity to determine improvement roadmaps.

4. Understanding the business case for asset management improvement and adopting cost/benefit analysis thinking.

5. Introduction to risk-based maintenance approaches.

6. Embracing life cycle management, including systems engineering and Reliability, Availability, Maintainability, and Safety (RAMS) requirements.

7. Life cycle costing and its impact on maintenance decisions.

8. Implementing the latest predictive and intelligent maintenance techniques.

Course Content:

Unit 1: Maintenance Management Strategy

- The role of maintenance within the business process.
- The evolution of maintenance management.
- The maintenance management environment and the need for improvement.
- Overview of various approaches to maintenance improvement.
- Maintenance benchmarking processes and methodologies.
- Achieving world-class maintenance management.
- Developing a maintenance management strategy.

Unit 2: Maintenance Plan: Defining the Workload

- Understanding risk priority numbers and their implications.
- Crafting a detailed criticality matrix.
- Using Failure Modes and Effects Analysis (FMEA).
- Analyzing the consequences of failure for proactive maintenance actions.
- Developing robust failure management policies using Reliability-Centered Maintenance (RCM).
- Implementing effective failure management policies.
- Enhancing corrective maintenance planning and maintenance logistics.
- Planning maintenance tasks in detail and estimating work requirements.

Unit 3: Maintenance Management Systems

- Prioritizing maintenance work effectively.
- Streamlining the maintenance workflow process.
- Managing notifications for seamless operations.

- Creating an efficient weekly master schedule.
- Mastering backlog management to prevent work accumulation.

Unit 4: Maintenance Auditing and Improvement

- Introduction to the principles of maintenance auditing and benchmarking.
- Using auditing and benchmarking to drive improvement initiatives.
- Detailed explanation of the maintenance auditing process and methodology.
- Guidance on conducting comprehensive maintenance audits.
- Interpreting audit results for actionable insights.
- Leveraging audit results to catalyze continuous improvement.

Unit 5: Performance Indicators and Management Reporting

- Effectively managing and measuring progress towards excellence.
- Streamlining information and control systems for maintenance operations.
- Tailoring management levels and information to meet organizational needs.
- Implementing maintenance performance indicators as accurate measures of success.
- Developing management reports to support informed decision-making.
- Facilitating continuous improvement in maintenance practices to ensure sustainable growth.