



Maintenance Outsourcing Management: Best
Practices & Sourcing Enabled Practices



25 - 29 August 2024
Istanbul (Turkey)
Sheraton Istanbul Levent



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Introduction:

Maintenance, Reliability, and Asset Management Best Practices are critical for every successful individual and company. It is the job of the maintenance professional to optimize the maintenance effort using a structured and systematic approach. This course covers all the fundamentals of Maintenance, Reliability, and Asset Management that a suitably qualified professional would be expected to carry out during his duty starting with the first steps and building up in a staircase fashion to a fully functional maintenance organization.

Individuals exposed to this training will develop new insights into international best practices. They will learn why the best companies in the world see Maintenance management as the key to delivering the right quality product at the lowest costs. Technical knowledge is key to effective control and peers' respect within any maintenance organization; when this is achieved personal satisfaction follows. This course will give the delegate the required level of technical knowledge and skill to achieve personal satisfaction. On completion of this course, the delegate will be able to critically analyze the methodologies employed within the organization and instigate improvements where required.

Course Objectives:

At the end of this course the participants will be able to:

- Understand the Maintenance optimization best practice techniques
- Understand a range of equipment failures and their implications to the operational organization
- Design a maintenance plan for the upkeep and maintenance inspections of static and rotating plant
- Learn a practical approach to developing an action plan to utilize these technologies in their areas of responsibility, fitting them into the overall maintenance strategy, and measuring benefits
- Integrate the Reliability Centred Maintenance RCM, Total Productive Maintenance TPM, and Condition Based Maintenance CBM

Targeted Audience:

- Maintenance Supervisors and Superintendents
- Reliability Engineers
- Operational Professionals who are interested in maintenance reliability and asset management
- Safety and Integrity Professionals
- Other professionals involved in process improvement

Course Outlines:

Unit 1: Failure of Machines and Inspection Based Failure Analysis - Causes of Machinery Failure in Rotating Equipment:

- Cavitation in Pumps
- Tripping of Turbines
- Surging in Compressors
- Wear Mechanisms: Fatigue, Fretting, and Corrosion
- Fundamentals of Maintenance and Asset Management

Unit 2: Failure Analysis and Reliability:

- Elementary Statistics and Standards
- Reliability Models
- Learning from Major Failures Case Studies in Process Industries
- Learning from Major Failures Case Studies in Oil and Gas Industries
- Root Cause Analysis and Extractions of Specific and Generic Lessons
- Reflection on Why Systems Fail

Unit 3: Statistical Failure Analysis and Reliability:

- Further Reliability Definitions and Standards
- Examples of the Planning Process
- Hazard Function and Bath Tub Curve
- Weibull Analysis
- Rotating Equipment
- Major Failures in other Industries

Unit 4: Condition Based Maintenance:

- General Purpose CBM
- The P-F Curve
- Principles of Vibration Monitoring
- Thermal Monitoring
- Acoustic Emission
- Lubricant Monitoring

Unit 5: Decision Analysis in Asset Management:

- Main Criticism of Existing Management of Computerised Maintenance Systems
- The Asset Management Framework
- The Decision-Making Grid Approaches
- Selection of Appropriate Maintenance Strategies
- Integration of RCM, TPM and CBM Approaches