BOOST
THE LEADING TRAINING PROVIDER

Maintenance & Reliability Management

Condition-Based Maintenance Implementation Strategies

Course Introduction

Condition-Based Maintenance (CBM) focuses on monitoring the real-time condition of equipment and performing maintenance only when necessary, based on data-driven insights. This approach helps to minimize downtime, extend asset life, and reduce unnecessary maintenance costs, making it a highly effective strategy for improving operational efficiency and reliability.

This training program will cover every aspect of implementing CBM, from setting up a monitoring system and analyzing condition data to developing a strategy and continuously improving it. Participants will learn how to integrate CBM with other maintenance strategies, evaluate its cost-effectiveness, and use it to optimize maintenance processes.

Target Audience

This course is designed for maintenance managers, engineers, technicians, and anyone responsible for implementing or managing a condition-based maintenance program within an organization.

Learning Objectives

- Understand the fundamentals and benefits of condition-based maintenance.
- Learn how to set up and manage a condition monitoring system.
- Gain skills in analyzing and interpreting data for CBM decisions.
- Develop a clear strategy for implementing CBM within your organization.
- Learn how to evaluate and improve CBM programs for long-term success.

Course Outline

- **01 DAY ONE**

  Introduction to Condition-Based Maintenance (CBM)

  - Overview of Condition-Based Maintenance (CBM)
  - Key differences between CBM and other maintenance strategies (PM, PdM, etc.)
  - Benefits of implementing CBM in operations
  - The role of CBM in improving equipment reliability
  - Key components of a CBM program
  - Understanding asset condition monitoring
  - Challenges in implementing CBM effectively

- **02 DAY TWO**

  Setting Up a Condition Monitoring System

  - Introduction to condition monitoring technologies (vibration, temperature, pressure, etc.)
  - Selecting the right monitoring equipment for your assets
  - Installing and setting up monitoring devices
  - Data collection techniques and best practices
  - Real-time data transmission and analysis
  - Integrating condition monitoring systems with existing maintenance systems
  - Setting thresholds and alerts for condition-based actions

- **03 DAY THREE**

  Data Analysis and Interpretation for CBM

  - The importance of data analysis in CBM
  - Types of data to collect (vibration, acoustics, temperature, etc.)
  - Tools for analyzing condition monitoring data
  - Identifying trends and patterns in asset condition data
  - Setting up automated data analysis for predictive insights
  - Translating data findings into actionable maintenance decisions

- **04 DAY FOUR**

  Developing and Implementing a CBM Strategy

  - Steps to develop a condition-based maintenance strategy
  - Defining the scope and objectives of CBM

- Integration with existing preventive or predictive maintenance strategies
- Establishing maintenance schedules based on asset condition
- Training staff to use CBM technologies and data
- Evaluating the effectiveness of your CBM strategy
- Continuous improvement and optimization of the CBM program

- **05 DAY FIVE**

Cost-Benefit Analysis and Continuous Improvement

- Conducting a cost-benefit analysis for CBM implementation
- How CBM reduces downtime and lowers maintenance costs
- Comparing CBM to other maintenance strategies in terms of cost and efficiency
- Measuring the ROI of CBM programs
- Implementing feedback loops and monitoring system performance
- How to continuously improve your CBM program

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 25, 2025	May 29, 2025	5 days	4250.00 $	KSA - El Dammam
Sept. 29, 2025	Oct. 3, 2025	5 days	4250.00 $	UAE - Dubai
Dec. 1, 2025	Dec. 5, 2025	5 days	4950.00 $	Indonsia - Jakarta