



Maintenance & Reliability Management

## Maintenance work methods

## Course Introduction

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This comprehensive 5-day training program has been meticulously crafted to equip participants with the essential skills and knowledge needed to excel in the field of maintenance. Whether you are a seasoned maintenance professional looking to enhance your expertise or a newcomer eager to grasp the fundamentals, this program is designed to cater to a diverse audience.

## Target Audience

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- Maintenance Technicians & Operators (mechanical, electrical, and facility technicians)
- Engineers (maintenance, reliability, mechanical, and electrical engineers)
- Supervisors & Team Leaders (maintenance foremen, workshop supervisors)
- Facility & Asset Managers (plant managers, asset management professionals)
- Procurement & Supply Chain Staff (spare parts and maintenance materials procurement)
- Health & Safety Officers (ensuring safe maintenance practices)

## Learning Objectives

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- Acquire a solid understanding of maintenance management principles and terminology.

- Appreciate the critical role that preventive and corrective maintenance play in overall operational efficiency.
- Learn to develop and implement effective preventive maintenance schedules.
- Explore various types of preventive maintenance and understand their applications.
- Gain insights into predictive maintenance technologies and their real-world applications.
- Distinguish between reactive and proactive maintenance approaches.
- Acquire skills in root cause analysis and failure modes and effects analysis (FMEA).
- Develop proficiency in planning and executing corrective maintenance tasks.
- Familiarize with modern maintenance management systems (CMMS).
- Explore asset tracking, condition monitoring, and augmented reality tools for maintenance.
- Gain hands-on experience with common maintenance tools.
- Understand the importance of safety procedures and compliance with regulations.
- Learn to identify hazards, assess risks, and implement effective safety measures.
- Develop an awareness of personal protective equipment (PPE) and emergency response protocols.

# Course Outline

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- 01 DAY ONE

## **Introduction to Maintenance Management**

Overview of Maintenance Management

Importance of Preventive and Corrective Maintenance

Key Performance Indicators (KPIs) in Maintenance

Maintenance Terminology and Definitions

## **Preventive Maintenance**

- Types of Preventive Maintenance (Time-based, Condition-based, Predictive)
- Developing Preventive Maintenance Schedules
- Equipment Inspection and Lubrication
- Predictive Maintenance Technologies (Vibration analysis, infrared thermography, etc.)
- Case Studies on Successful Preventive Maintenance Programs

- 02 DAY TWO

## **Corrective Maintenance**

- Reactive Maintenance vs. Proactive Maintenance
- Root Cause Analysis Techniques
- Failure Modes and Effects Analysis (FMEA)
- Work Order Planning and Execution
- Emergency Response Protocols

# Maintenance Tools and Technologies

- Computerized Maintenance Management Systems (CMMS)
- Asset Tracking and Management
- Use of Drones in Inspection
- Condition Monitoring Tools
- Augmented Reality (AR) in Maintenance

• 03 DAY THREE

# Safety in Maintenance Work

- Safety Procedures in Maintenance Work
- Personal Protective Equipment (PPE)
- Hazard Identification and Risk Assessment
- Emergency Response and Evacuation Plans
- Practical Application.

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 16, 2025	3 days	3250.00 \$	UAE - Dubai
Aug. 25, 2025	Aug. 27, 2025	3 days	3250.00 \$	UAE - Abu Dhabi
Dec. 22, 2025	Dec. 24, 2025	3 days	3950.00 \$	Thailand - Bangkok