

Training  
Course

**Implementing Effective  
Preventive & Predictive  
Maintenance Programmes**



## Course Plan

### Introduction

Maintenance is key to ensuring the longevity, safety, and efficiency of equipment and assets. This course, “Implementing Effective Preventive & Predictive Maintenance Programmes,” is designed to provide professionals with the skills needed to develop and implement maintenance strategies that reduce downtime, optimize asset performance, and prevent costly failures. Participants will gain a deep understanding of preventive and predictive maintenance techniques, learn how to utilize data for maintenance forecasting, and explore best practices to improve reliability and productivity across operations.

### Course Objectives:

- ✓ To understand the principles of preventive and predictive maintenance.
- ✓ To learn how to design and implement effective maintenance programs.
- ✓ To identify tools and technologies used in predictive maintenance.
- ✓ To develop skills in planning, scheduling, and tracking maintenance tasks.
- ✓ To explore data-driven approaches for maintenance forecasting and decision-making.



- ✓ To reduce equipment downtime and extend asset lifespan through proactive maintenance.
- ✓ To improve safety and reliability of equipment.
- ✓ To create cost-effective maintenance strategies that reduce unnecessary expenses.
- ✓ To understand key performance indicators (KPIs) for measuring maintenance effectiveness.
- ✓ To foster a culture of continuous improvement in maintenance practices.

## Who Should Attend?

- Maintenance managers and supervisors
- Plant and facility managers
- Reliability engineers and technicians
- Operations and production managers
- Asset management professionals
- Maintenance planners and schedulers
- Professionals in manufacturing, utilities, oil & gas, and other industries reliant on machinery and equipment

## Training Methods:

- ✓ Online Video material.
- ✓ Presentation.
- ✓ Live Interactive sessions.
- ✓ Course presenter will make extensive use of all tools that will be needed for the virtual environment.
- ✓ Questions & Answers

## Course Outline:

### Day One

- Introduction to Maintenance Strategies
- Principles of Preventive Maintenance
- Predictive Maintenance Fundamentals
- Difference Between Preventive and Predictive Maintenance

### Day Two

- Developing a Maintenance Plan
- Maintenance Scheduling and Optimization
- Condition-Based Maintenance (CBM)
- Data Collection for Predictive Maintenance



### Day Three

- Use of Sensors and IoT in Maintenance
- Failure Mode and Effects Analysis (FMEA)
- Root Cause Analysis (RCA)
- Vibration Analysis and Thermography

### Day Four

- Maintenance KPIs and Performance Measurement
- Cost-Benefit Analysis of Maintenance Programs
- Inventory and Spare Parts Management
- Maintenance Budgeting and Cost Control

### Day Five

- Safety Considerations in Maintenance
- Training and Developing Maintenance Teams
- Continuous Improvement in Maintenance
- Future Trends in Maintenance

## Training Details

Course Duration

5 Days

Pre-Schedule

20 – 24 Jan 2025

Venue

Dubai – The H Hotel

Training Fees Per  
Person

KWD 1250 ( One Thousand Two Hundred Fifty )

Course Fees Include

- ✓ Tuition documentation
- ✓ Curriculum and Training Handout
- ✓ Five Star Lunch
- ✓ Completion Certificates

