

# Maintenance Planning & Reliability Engineering

## COURSE OVERVIEW

This course provides a practical introduction to maintenance planning and reliability engineering, focusing on strategies that enhance equipment performance, minimize downtime, and improve asset lifecycle management. It depicts how to develop effective maintenance plans, apply reliability-centered maintenance (RCM) principles, interpret failure data, and use modern tools for predictive and preventive maintenance. Participants will be equipped with the skills to optimize maintenance workflows, strengthen system reliability, and support cost-effective, sustainable operations across industrial environments.

## WHO SHOULD ATTEND?

This course is ideal for maintenance engineers, reliability engineers, asset managers, plant operations supervisors, facility managers, mechanical and electrical engineers involved in equipment upkeep, and technical professionals responsible for improving system performance, reducing downtime, and managing maintenance programs across industrial or commercial facilities.

## COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Develop and implement comprehensive maintenance plans for electrical systems.
- Apply reliability-centered maintenance principles to critical equipment.
- Analyze failure data and implement corrective actions.
- Utilize predictive maintenance technologies and condition monitoring.
- Optimize maintenance schedules and resource allocation.
- Manage spare parts inventory and maintenance documentation.

## KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Maintenance strategy development and implementation.
- Reliability-centered maintenance methodologies.
- Failure modes and effects analysis for electrical systems.
- Predictive maintenance technologies and applications.
- Maintenance key performance indicators and metrics.
- Root cause analysis and problem-solving techniques.
- Lifecycle cost analysis and asset management principles.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded