

Preventive & Shutdown Maintenance For Engineers

Course Objectives:

By the end of the program, participants will be able to:

- Have a detailed understanding of Preventive and Predictive Maintenance.
- Set up a Preventive Maintenance (PM) program.
- Design task lists and implement and evaluate the PM system.
- Differentiate between the various technologies used in Predictive Maintenance (PdM) Systems.
- Deep approach to plant short term and long term (shutdown) planners and contractor staff, who are involved in the planning, co-ordination and execution of plant shutdowns and turnarounds. The workshop is especially valuable for turnaround managers and co-coordinators, planning/scheduling and cost control staff, construction supervisors, project engineers and contract administrators. Participation from inspection, materials, safety and maintenance engineering is also encouraged

Who Should Attend?

This course is designed for Maintenance supervisors, managers, PM leads, CMMS managers, planners, engineers and people who are in training for these positions. There is also an advantage to having representatives from Operations for their perspective and input and well as for their orientation to Maintenance. Also this course is recommended for all Maintenance, Reliability, Engineering and technical support staff including leadership and management

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Course Content:

1. Introduction

- 1.1 Definitions and concepts
- 1.2 Corrective Maintenance
- 1.3 Preventive Maintenance
- 1.4 Predictive Maintenance
- 1.5 Proactive Maintenance
- 1.6 Total Productive Maintenance
- 1.7 Reliability Centered Maintenance

2. Corrective Maintenance

3. Preventive Maintenance

- 3.1 Maintenance Planning
- 3.2 Maintenance Scheduling
- 3.3 Managing Maintenance Actions Execution
- 3.4 Maintenance Assessment
- 3.5 Reporting
- 3.6 Key Performance Indicators – KPI
- 3.7 Computerized Maintenance Management Systems – CMMS

4. Predictive Maintenance

- 4.1 Vibration Analysis
- 4.2 Thermography
- 4.3 Oil / grease Analysis
- 4.4 Video Scope
- 4.5 Laser Alignment

5. Proactive Maintenance

- 5.1 Failure Modes and Effect Analysis
- 5.2 Root Cause Failure Analysis

6. Lean Maintenance

7. Reliability Centered Maintenance

8. Total Productive Maintenance

9. Maintenance Budget Control

10. Case Study

11. SAP Applications