

MAINTENANCE MANAGEMENT AND PLANNING (REF:OTSMMPO01)

Course Objectives

To obtain a detailed understanding of the planning and maintenance of a Power Plant.

Course Description

This course has been designed to give a detailed understanding of the maintenance management requirements and processes associated with a modern industrial process or power plant. The course will examine the various approaches to maintenance and discuss in detail the objectives of outage planning as regards manpower, financial estimating and spares resourcing. An overview of the requirements of a maintenance management system will also be provided.

Who Should Attend

All personnel involved in the maintenance management and planning of a modern industrial plant would benefit from attending this course. This course has been scheduled together with our Gas Turbine Maintenance Management course such that students from a Power Plant attending both courses will gain the maximum benefit from both courses.

Pre-Requisites

All Attendees should have a sound power generation background.

Course Outcome

At the end of this course you will be able to plan the maintenance of a Gas Turbine.

Course Outline

Day 1

Introduction
Defining Level of Maintenance
Planned
Reactive
Preventive/predictive
Normal repairs
Shutdowns/Turnarounds
Capital Improvements

Day 2

Maintenance Management Systems

Examples of Maintenance Management Systems
Computerised Maintenance Management Systems

Planning & Scheduling

Defining Planning & Scheduling
Objectives of Good Planning & Scheduling Programs
Planning & Scheduling Impacts

Day 3

Estimating Methods
Judgement Vs Guessing
Planning & Estimating Methods
Planning Thought Process



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Day 4

Forecasting, Planning & Scheduling
Types of Forecasts Needed
What effects our ability to Plan and Schedule

Planning using Microsoft Project

Gantt Chart and Pert Charts
Entering Plan Details
Critical Path Analysis
Entering Manpower and Resources
Project Milestones
Tracking Plan against Baseline

What effects our ability to Plan and Schedule

Day 5

Shutdown and Turnaround Planning
Planning Process-Steps
Situation Analysis
External Analysis
Gap Analysis
Action Development
Resource Analysis
Target Setting
Performance Standards

Course Review and Feedback

