



## Power Plant Operation & Maintenance Strategy

Date	Venues	(\$Fees	Book your seat
11 Feb -15 Feb 2024	Kuala Lumpur	3300	<a href="#">Register Now</a>

### Course Overview

This general introductory course provides some basic engineering concepts needed to understand how a power plant works, followed by a general overview of coal-fired power plant layout and operating principles. All major systems in the power plant will be discussed all the way from coal handling to the generation of electricity. Relationships between power plant systems will be illustrated. Focus will be on simple presentation of complex engineering ideas, so attendees are not required to have an engineering or scientific background.

### Course Objective

Increase personnel productivity

Apply life cycle cost and risk planning at facility assets

Target maintainability and reliability in the development of facility maintenance plans

Understand how to decide rationally what maintenance activities to outsource and what is not

Understand the different types of maintenance contracts

Learn how to define service levels and monitor the contractor performance

Learn how to develop a maintenance contract

Recognize the pitfalls

Understand how to evaluate the delivered performance of all parties involved

### Who Should Attend?

- Generation dispatchers who need a basic understanding of coal-fired power plant operation
- Regulators, communications staff, and others who need a basic understanding of coal-fired power plant operations
- Anyone who want to update himself on reliability, maintenance
- Anyone who have been assigned the responsibility to develop a maintenance strategy

### Course Outline

- Introduction
- Power Plant Concepts

- Simple Power Plant
- Basic Energy Conversion
- Transferring Heat To Steam Energy
- Converting Steam Energy To Mechanical Energy
- Converting Mechanical Energy To Electrical Energy
- Heat And Energy
- Combustion Basics
- Handling Of Combustion Air And Flue Gas
- Combustion Heat Transfer
- Power Plant Electrical Primer
- Power Plant Alternating Current (Ac) Generators

#### Training Methodology

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation



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