

Training  
Course

## Operations Abnormalities & Plant Upset

## Course Plan

### Introduction

To survive in today's world of 'lean and mean' operations, we cannot wait for breakdowns. As a matter of fact, we should make responding to breakdowns the exception in our daily workload, not the norm. A successful and effective maintenance operation has to break away from the 'fix it when it breaks' mentality. The ultimate goal of the maintenance department should be to 'stop' things from breaking, increase assets availability and reliability and do so with the lowest possible cost.

### Course Objectives:

- ✓ Demonstrate the latest concepts and techniques required for managing or supervising a maintenance unit
- ✓ Examine the organizational and managerial considerations for effective maintenance work
- ✓ Apply techniques to measure Overall Equipment Effectiveness (OEE)
- ✓ Distinguish and optimize the special characteristics of maintenance activities
- ✓ Debunk safety myths safety and identify unsafe acts and conditions
- ✓ Identify common maintenance Key Performance Indicators (KPIs) and develop the maintenance department scorecard

## Who should attend?

This course is designed to assist in the effective interaction of the day-to-day management of a plant. This will be realised through improved awareness of plant operating principles and practicalities. Those from plants who will benefit from attending are operating staff, engineering staff, technical staff and supervisory staff.

## 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

#### **Thermal Plant Configuration and Operations**

- Review of plants across Australia (coal and gas fired)
- Fuel sources
- Boiler plant
- The steam and water cycle
- Subcritical and supercritical boilers
- Turbine plant
- Condensate and feed water heating systems
- Generator plant
- Electrical systems
- Cooling water systems
- Balance of plant system

### Day Two

#### **Plant Operations and Control**

- Hazards and the appropriate precautions
- Control systems
- Typical elements of plant behaviour
- Burner management and boiler automatic control systems
- Plant permissive and interlocks
- Alarms
- Plant trends

- Protection systems
- Standby plant
- Plant thermal performance and controllable losses

### Day Three

#### **Troubleshooting and Error Management – Evaluating Case Studies**

- Competent, safe and reliable operation of plant
- Abnormal plant and process conditions and the associated incident response mechanisms
- Appreciating inaccuracies with data logging
- Error management
- Troubleshooting
- Case studies

### Day Four

#### **Preventing Incidents in an Insightful Way**

- Communication skills improving your insight and intuitive skills to approach people in the right way
- Questioning skills improving your ability to ask the operator relevant, accurate questions that can help improve design efficiencies
- Providing constructive feedback that's well received Questions
- Course review and discussion
- Practical assignment

## Day Five

### Plant Maintenance Components

- Maintenance options – essential maintenance VS deferred maintenance
- Condition monitoring
- Typical operator issues and problems
- Plant history and engineering solutions
- Maintenance priorities

### Training Details

Course Duration	5 Days
Pre-Schedule	11 – 15 Jan 2026
Venue	Istanbul – Ramada – City Center Hotel
Training Fees Per Person	KWD 1450 ( One Thousand Four Hundred Fifty )
Course Fees Include	<ul style="list-style-type: none"> <li>✓ Tuition documentation</li> <li>✓ Curriculum and Training Handout</li> <li>✓ Five star Lunch</li> <li>✓ Completion Certificates</li> <li>✓ Lunch Included</li> </ul>