

# Power Plant Troubleshooting and Engineering Problem Solving Course

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2026-12-15

**End Date:** 2026-12-19

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID:** EAPET

**Course Code:** EAPET-47

## Syllabus

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### Course Description

Excellent Troubleshooting skills are considered a core competency for 'Best-in-Class' modern industrial companies. If your company's goals include minimizing downtime then this workshop is a must because it delivers rapid, efficient Troubleshooting.

The following aspects will be addressed:

- Problem Solving Terminology
- Numerous Tools and Techniques
- A standard "Blue-Print" for problem analysis and resolution
- Strategies; Planning; and Protocols
- Variability Analysis

Participants attending the program will:

- Understand how to become a 'Top Gun' Trouble-Shooter
- Develop a structured approach to Troubleshooting and Problem Solving which uses a common terminology and shared understanding
- Point the way to Continuous Improvement in the way you run your processes and make incremental efficiency gains
- Understand the difference between having a techniques manual on the bookshelf – and actually making it work
- Identify the "motivated" people who should be the champions of Troubleshooting and Problem Solving – and who should just follow
- Understand work practices which "allow" success in Troubleshooting and Problem Solving

## **Course Outline**

### **Introductory Concepts**

- The nature of problems
- A Common Terminology
- Context – Asset based or Business Process based
- Structured approaches – 6 Big Losses, 7 Wastes
- Techniques introduction
- Tools introduction
- A Six Level Performance Standard
- Critical Relationships

### **Tools & Techniques – Practical Experience**

- Decision Logic
- Maturity Indexing
- Relationships Analysis
- Problem Analysis and Synthesis
- Practical Use of Tools and Techniques
- Case Studies
- Project selection methods
- Tools & Techniques – selecting the right one

### **People Issues**

- External vs. Internal Motivation
- Developing Troubleshooting and Problem Solving skills
- Managing change
- Transition Matrix
- Fractation

### **Operator, Maintainer, Designer Interface**

- Cross functional working
- Effect of Maintenance strategy
- Functional Contribution analysis
- Life Cycle Analysis, Design for Operation, Design for Maintenance
- Variability Analysis
- Strategies; Planning; and Protocols
- Effect of improved "Fit" between critical parameters in Operations
- Continuous Improvement

### **Open Forum**

- Review of Concepts, Tools and Techniques
- Your Problems – Your Case Studies
- Your Action Plan
- Configuration Management
- Commercial Programs
- Application of "Standard Questions"
- The Four critical stages of Data Maturity
- Wrap up