

**Training Title**

**PROCESS PLANT TROUBLESHOOTING & ENGINEERING PROBLEM SOLVING**

**Training Duration**

**5 days**

**Training Venue and Dates**

|              |  |   |                 |         |            |
|--------------|--|---|-----------------|---------|------------|
| REF<br>PE050 | Process Plant Troubleshooting &<br>Engineering Problem Solving | 5 | 22-26 Jan. 2024 | \$5,500 | Dubai, UAE |
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**In any of 5 star hotel. Exact venue will be informed later.**

**Training Fees**

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

**Training Certificate**

**Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.**

**COURSE OVERVIEW**

**COURSE INTRODUCTION**

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

**COURSE OBJECTIVES**

Participants attending the program will:

- Focuses on how to become a 'Top Gun' Troubleshooter
- Develop a structured approach to Troubleshooting and Problem Solving which uses 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.

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- Understand work practices which "allow" success in Troubleshooting and Problem Solving

### WHO SHOULD ATTEND?

This program is directed at:

- Supervisors who are involved in the operations function and who are responsible for leading and directing people to achieve and improve productivity levels
- Those faced with the challenge of actually using the various techniques of Troubleshooting and Problem Solving to reduce downtime and waste and improve run efficiencies will benefit
- It is of equal importance to Production, Maintenance Engineering and Process Engineering personnel

### TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

### DAILY COURSE OUTLINE

#### **DAY 1**

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#### **Concepts**

- **The nature of problems**
- **Context – Asset based or Business Process based**
- **Structured approaches – 6 Big Losses, 7 Wastes**
- **Techniques introduction**
- **Tools introduction**

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**DAY 2**

**Tools & Techniques – Practical Experience**

- Problem Analysis
- Practical Use of Tools and Techniques
- Case Studies
- Project selection methods
- Tools & Techniques – selecting the right one

**DAY 3**

**People Issues**

- Working practices – empowerment or impairment?
- Group dynamics
- Individual motivators
- Developing Troubleshooting and Problem Solving skills
- Managing change

**DAY 4**

**Operator, Maintainer, Designer Interface**

- Cross functional working
- Effect of Maintenance strategy
- Functional analysis
- Concurrent Engineering, Design for Operation, Design for Maintenance

**DAY 5**

**Open Forum**

- Revisit Concepts, Tools and Techniques
- Case Studies

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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P.O BOX 45304  
ABU DHABI, U.A.E

T +971 2 6264455  
F +971 2 6275344

[www.definettraining.com](http://www.definettraining.com)