

Learning Topic: Technical (Troubles diagnosis).

Course Name: Process Plant Troubleshooting & Engineering Problem Solving

Reference Code : TEC 405

### About the course :

This is a wide range of activities applied to a production plants leading to achieve the company's goals , include reducing costs and preserving the lives of your employees because it delivers a wide range of pro-active, efficient troubleshooting skills. It has been proven that technical competence alone is no longer enough to ensure consistent operational performance. Excellent troubleshooting skills are considered a core competency for 'Best-in-Class' modern industrial companies. In the competitive world that we are living in, it is essential that we optimize our efforts to secure the desired outcomes, and this course will equip the delegate with the basic tools and understanding to make that happen.

Participants who will attend this article will be able to :

Appreciate the difference and consequences between pro-active and reactive problem solving

Develop a structured approach to troubleshooting and problem solving

Understand continuous improvement in the way you run your processes

Implement teamwork and leadership principles; support and cooperation practices

Understand work practices which "allow" success in troubleshooting and problem solving.

### Course Objective:

This training course is a must if your company's goals include reducing costs and preserving the lives of your employees because it delivers a wide range of pro-active, efficient troubleshooting skills. It has been proven that technical competence alone is no longer enough to ensure consistent operational performance. Excellent troubleshooting skills are considered a core competency for 'Best-in-Class' modern industrial companies. In the competitive world that we are living in, it is essential that we optimize our efforts to secure the desired outcomes, and this course will equip the delegate with the basic tools and understanding to make that happen.

This training course will feature:

- The understanding of terminologies; tools and techniques
- The Application of a standard "Blue-Print" for problem analysis and resolution
- How to utilize Maturity Indexing; Planning; and Protocols
- The useful Case Studies; Exercises and Analysis
- Learning the "Human Factors" as a Source of Error

#### United Arab Emirates

Emirates Towers, Level 41 Sheikh Zayed Road  
Dubai-UAE. P.O Box 3103

Tel.:0097143132317

#### Kingdom of Saudi Arabia

Khobar Gate Tower  
King Fahad Street , Khobar 31952

Tel.: 00966133308334

#### Kingdom of Saudi Arabia

101 Business Tower, 8th Floor  
Al Jubail 35513, Bldg# 9278 ,KSA

Tel.: +966 13 361 5552

### Programme Methodology:

This training course will ensure maximum understanding, comprehension and retention of the information presented. This includes a facilitative style with a combination of lecture & presentation in the use of techniques, case studies and a high level of lively debate and sharing of ideas. Delegates will be encouraged to introduce problems of their own for discussion and analysis.

- Pre-test and Post-test
- Variety of Learning Methods & examples
- Presentation
- Lectures
- Group Work
- Animations
- Discussion

### Who Should attend?

This training course is suitable to a wide range of professionals but will greatly benefit: Employees who are responsible for leading and directing people to achieve and improve productivity levels . Those faced with the challenge of solving plant related problems . Maintenance Engineering and Process Engineering personnel , Supervisors who are involved in the Operations / Maintenance function as well as Planners, Coordinators, Engineers and Technologists.

### Course Outline:

#### Day One: Introductory Concepts

- Defining the nature of problems
- Utilizing a Common Terminology
- Techniques introduction
- Tools introduction
- Levels of Performance Standard
- Critical Relationships

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### Day Two: Tools & Techniques

- Application of Decision Logic
- Maturity Indexing
- Relationships Analysis
- Problem Analysis and Synthesis
- Project selection methods

### Day Three: People Issues

- Group dynamics
- Individual motivators: External vs. Internal Motivation
- Developing Leadership Competence
- Managing change via the Transition Matrix

### Day Four: Operator, Maintainer, Designer Interface

- Cross functional problem solving
- Development of Maintenance strategy
- Life Cycle Analysis, Design for Operation, Design for Maintenance
- Variability Analysis
- Strategies; Planning; and Protocols
- Effect of improved “Fit” between critical parameters in Operations

### Day Five: Open Forum

- Concepts, Tools and Techniques applied to problems
- Configuration Management
- Commercial Programs
- The Critical stages of Data Maturity
- Case Studies and Action Plans
- Post test

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Course Duration	Date	Venue	Course Fee
5 Days			

**Time:** 08:00 AM -03:00 PM

**Numbers of hours:** 30 Hours

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