

Learning Topic: Technical (Total Failure elimination).

Course Name: Root Cause Failure Analysis.

Reference Code : TEC 407

About the course:

This training course addresses a modern approach to problem solving in maintenance management and is based on some of the most recent research in the field. Participants will be enabled to improve the performance of their operation with practical, down-to-earth techniques that are based on first principles.

Course Objective:

Applying the concepts taught in this training course, delegates will be able to:

- Develop and implement a sustainable world-class maintenance strategy
- Perform a systematic Root Cause Failure Analysis
- Develop an improved understanding of numerous maintenance environment variables, and of the relationships between them
- Understand, audit and optimize your maintenance process
- Understand the use and application of generic problem solving techniques
- Cascade the principles and benefits of the program to other employees

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Programme Methodology:

The training methodology is interactive with numerous group exercises and is suitable for all employees involved in maintenance and operations management enhancing the following :

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

United Arab Emirates

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- Animations
- Discussion

Who Should attend?

- Engineering and Technical Professionals and Supervisors from any industry
- Maintenance Planners and Coordinators
- Operations and Manufacturing Professionals and Supervisors
- Foremen and Team leaders
- Plant Engineers and Maintenance System Professionals
- Section Engineers and Planners

Course Outline:

DAY 1

Problem Solving - Basic Principles

- Pretest
- Introduction to Modern Maintenance Practice
- Problem Identification Session
- Terminology of RCFA
- Decision Logic
- Three Knowledge Types
- Maintenance Maturity Indexing

DAY 2

- The SQC Performance Model
- Reverse Risk Analysis
- Maintenance/Operations Objectives and Resource Analysis
- Complexity, Risk, and Variability Models
- The Maintenance Cost Ratio
- Solving of Delegate Problems
- Six Level Generic Performance Standard
- Continuous Improvement

DAY 3

- Operational Variables
- “ Are Maintenance Costs too High?”
- The Absolute Decision Standard
- Data/Knowledge Base
- Accuracy and Availability of Data/Cost relationship

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- The Four critical stages of Data Maturity
- Logical Critical Thinking vs. Creative Lateral Divergent Thinking
- Case Studies: *Analysis and Exercises*

DAY 4

Root Cause Analysis

- Maintenance Strategy Development and Implementation
- Standard Pitfalls for Maintenance Improvement Initiatives
- Generic Problem Solving Techniques
- Logical Problem Solving Techniques
- Creative Problem Solving Techniques
- Other Problem Solving Techniques
- A Systematic Root Cause Failure Analysis Methodology
- Exercises

DAY 5

Action Plan Development

- Introduction to TRIZ Methodology
- Review of Most Suitable Techniques
- Development of an “Instant Approach” to Problem Solving
- Application of “Standard Questions”
- Individual Delegate Requirements
- Logistical Requirements for Practical RCFA implementation
- Post test

| Course Duration | Date | Venue | Course Fee |
|-----------------|------|-------|------------|
| 5 Days | | | |

Time: 08:00 AM -03:00 PM

Numbers of hours: 30 Hours

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