



Consulting and Training | Reach New Heights

Course Name

Root Cause Failure Analysis (RCFA)

Sector Name

Maintenance & Reliability Management

Document Type

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Root Cause Failure Analysis (RCFA)

Course Introduction

The highly interactive Root Cause Failure Analysis program addresses a modern approach to problem-solving in maintenance management. The program 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.

The following aspects will be addressed:

- ✓ Logistics of Continuous Performance Improvement
- ✓ Decision Logic and Operational Knowledge Types
- ✓ Maturity Indexing
- ✓ Relationship Development and Analysis
- ✓ Strategic Focus
- ✓ Complexity, Risk, and Variability Models

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Root Cause Failure Analysis (RCFA)

Target Audience

- ✓ Facilities Engineer
- ✓ Facilities Engineering Manager
- ✓ Facilities Manager
- ✓ Facilities Specialist / Coordinator
- ✓ Health and Safety Engineer
- ✓ Maintenance Group Leader
- ✓ Maintenance Helper / Assistant
- ✓ Maintenance Manager
- ✓ Maintenance Superintendent
- ✓ Maintenance Supervisor
- ✓ Mechanical Reliability Engineer
- ✓ Network Reliability Engineer
- ✓ Operations and Maintenance Specialist
- ✓ Reliability Engineer

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Root Cause Failure Analysis (RCFA)

Learning Objectives

- ✓ 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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Root Cause Failure Analysis (RCFA)

Course Outline

✓ **01 DAY ONE**

Sustainable Maintenance Performance Improvement

- ✓ Introduction to Modern Maintenance Practice
- ✓ The SQC Performance Model
- ✓ Reverse Risk Analysis
- ✓ Maintenance /Operations Objectives and Resource Analysis
- ✓ Complexity, Risk, and Variability Models

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Course Outline

✓ 02 DAY TWO

The Maintenance Cost Ratio

- ✓ Solving Delegate Problems
- ✓ Exercises
- ✓ Cross Referencing Operational Variables (Group Exercise)
- ✓ “Your Maintenance Costs are too High!”
- ✓ Sigma Sets: The Absolute Decision Standard
- ✓ Data / Knowledge Base
- ✓ Accuracy and Availability of Data / Cost Relationship
- ✓ The Four Critical Stages of Data Maturity
- ✓ Logical Critical Thinking vs. Creative Lateral Divergent Thinking
- ✓ Case Studies: Analysis and Exercises

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Course Outline

✓ **03 DAY THREE**

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

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Course Outline

✓ 04 DAY FOUR

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

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Course Outline

✓ 05 DAY FIVE

Commercial Programs

- ✓ Logistical Requirements for Practical RCFA Implementation
- ✓ RCFA Exercises (Analysis of Client Company Specific Problems)

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 13, 2026	July 17, 2026	5 days	5950.00 \$	USA , Texas
Oct. 26, 2026	Oct. 30, 2026	5 days	4250.00 \$	UAE , Dubai
May 3, 2027	May 7, 2027	5 days	4250.00 \$	UAE , Dubai
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Riyadh

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