Root Cause Failure Analysis: Mastering Systematic Approaches

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Lisbon (Portugal)



Root Cause Failure Analysis: Mastering Systematic Approaches

Ref: 20262859_1183721 Date: Location: Lisbon (Portugal) Fees: 5200 GBP

Course Description

This comprehensive 1-week course equips participants with the knowledge and skills to conduct effective Root Cause Failure Analysis RCFA. Attendees will learn systematic approaches to identify, analyze, and prevent recurring failures in various systems and processes. The course covers essential RCFA tools, techniques, and methodologies, enabling participants to implement robust failure prevention strategies in their organizations.

Learning Objectives

- Understand the principles and importance of Root Cause Failure Analysis
- Master various RCFA tools and techniques, including 5 Why, Fishbone diagrams, and Fault Tree Analysis
- Develop skills to conduct thorough failure investigations and analyses
- Learn to implement effective corrective actions and preventive measures
- Gain practical experience through case studies and hands-on exercises

Course Modules

Day 1: Introduction to Root Cause Failure Analysis

- RCFA fundamentals and importance
- Types of failures and their impacts
- RCFA process overview
- Data collection and preservation techniques

Day 2: RCFA Tools and Techniques

- 5 Why analysis
- Fishbone Ishikawa diagrams
- Fault Tree Analysis FTA
- Failure Modes and Effects Analysis FMEA



Day 3: Failure Investigation and Analysis

- Conducting effective interviews
- Physical evidence analysis
- Root cause identification methods
- Common pitfalls in RCFA

Day 4: Corrective Actions and Prevention

- Developing corrective action plans
- Implementing preventive measures
- Monitoring and measuring effectiveness
- Continuous improvement strategies

Day 5: RCFA Implementation and Case Studies

- RCFA program development
- Building a failure prevention culture
- Real-world case studies and exercises
- Action planning for organizational implementation

Practical Wins for Participants

- Ability to lead RCFA investigations in their organizations
- Improved problem-solving skills for complex system failures
- Enhanced ability to prevent recurring failures and reduce downtime
- Increased confidence in implementing effective corrective actions

