

Root Cause Failure Analysis

DAY 1

Problem Solving - Basic Principles

- Problem Identification Session
- Terminology of RCFA
- Decision Logic
- Three Knowledge Types
- Maintenance Maturity Indexing
- Six Level Generic Performance Standard
- Continuous Improvement
- Exercises

DAY 2

Sustainable Maintenance Performance Improvement 1

- Introduction to Modern Maintenance Practice
- 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
- Exercises

DAY 3

Sustainable Maintenance Performance Improvement 2

- 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

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