

Root Cause Failure Analysis

This 2-½ day course shows participants how to collect facts, analyze those facts, pinpoint the problem, recommend solutions to eliminate the problem, and then track the progress of the implemented recommendations. Additionally, participants will understand who is responsible for monitoring, identifying, documenting, and implementing improvements for equipment, processes, or human failures.

I. Root Cause Failure Analysis Overview

- Definition of a Problem
- Categories of Failures
- Root Cause Failure Analysis Process
- Gathering Information
- Interviewing
- Describing the Problem

II. Root Cause Failure Analysis Techniques

- Change Analysis
- Barrier Analysis
- Event and Causal Factor Analysis Charting

III. Test and Verification of Probable Root Cause

- Test Probable Causes
- Verification of the Root Cause
- Steps to Verification
- Root Cause Failure Analysis Documentation

IV. Root Cause Coding

- Basic Cause Categories
- Pareto Analysis Procedure

V. Component Failure Modes and Mechanisms

- Component Life Concept
- Specific Failures