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Root Cause Failure Analysis

Training

2-Day Workshop



Course Overview

Application of this technique will enable candidates to arrive at the underlying cause for a failure. The course gives an in-depth understanding of how to analyse a system and apply investigative techniques to find what led to the original failure in the first place.

The following aspects are covered:

- RCFA in Perspective
- Definition of Root Cause
- The RCFA process
- RCFA Approaches
- Introduction to related processes
- The importance of utilising RCFA
- ISO Standards and Requirements
- What prompts the RCFA effort

The course is packed with practical exercises to enable candidates to execute an RCFA.

Course Objectives & Outcomes

Upon completion of this course, candidates will be able to:

- Understand the role of RCFA in relation to other industry processes for managing physical asset failures;
- Provide problem solving support, irrespective of expertise in a specific process or technology involved;
- Use a systematic, structured approach to identify the root cause of a failure;
- Break the problem down to the smallest components and then begin hypothesizing as to what the underlying causes might be;
- Define effective and applicable solutions.

RCFA

Root Cause Failure Analysis (RCFA) is a step-by-step approach that leads to the discovery of the root cause. Every system-, equipment- or component failure happens for a number of reasons.

There is a definite progression of actions and consequences that leads to a failure. An RCFA investigation traces the cause and effect trail from the final failure back to the root cause.

RCFA Procedure

The procedure investigates the failure, using facts left behind from the initial flaw.

By understanding the existing data of the incident, the root cause analysis method allows more reliable and cost-effective policies to be formulated. This allows managers who are tasked with safety, quality, risk and reliability, to maximise significant improvement opportunities.

The root cause analysis method provides clients with specific, concrete recommendations for preventing incident recurrences.

Typical Course Candidates

- Engineers
- Supervisors / Foremen and Team Leaders
- Operations and Maintenance Staff
- Condition-Based Maintenance Technicians
- Process Reliability Staff and Operators
- Process Quality Control / Assurance Staff
- Corrective Action Co-ordinators



ECSA

Engineering Council of South Africa

CPD Accreditation Number
SAAMA 00609
Credits - 2

For Bookings

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