

Root cause Failure Analysis

UNDERSTANDING EQUIPMENT FAILURES



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Maintenance Excellence

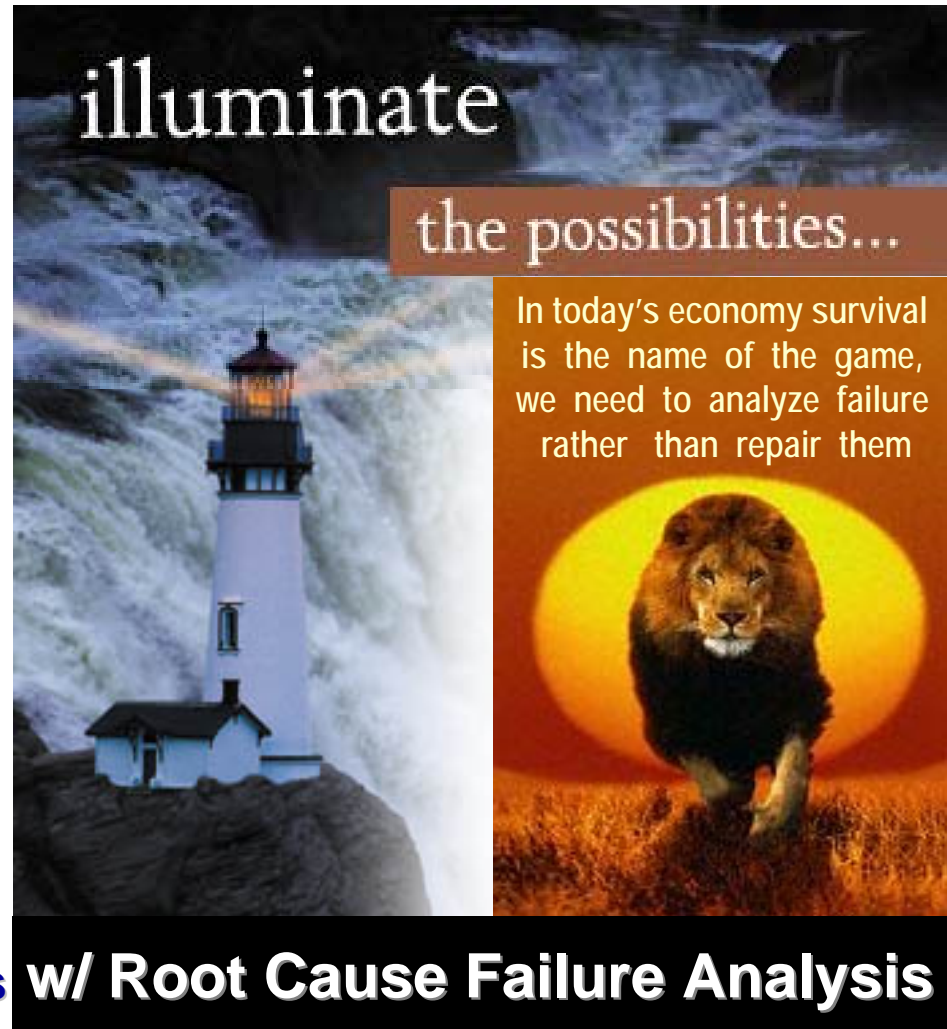
Rolly Angeles



ROOTCAUSE FAILURE ANALYSIS

Course Objective :

- Understand the importance of Root Cause Analysis as a tool in achieving a Proactive environment in our workplace
- Provide an understanding on why we need to perform Root Cause Failure Analysis
- Provide a clear understanding on what Root Cause Analysis is and how it relates to our day to day lives
- Provide an opportunity to practice Root Cause Failure Analysis on a real workplace problem



illuminate

the possibilities...

In today's economy survival is the name of the game, we need to analyze failure rather than repair them

w/ Root Cause Failure Analysis



ROOTCAUSE FAILURE ANALYSIS

Course Modules On Root Cause Failure Analysis :

Day 1

Module 1 : Why Failures Are Important ?

- Understanding failures **NEW**
- Quotes on failures

Module 2 : Understanding RCFA

- Understanding Root Cause Failure Analysis
- Physical, Human and Latent Causes
- RCFA Logic Tree Diagram

Bonus Module : Evidence – The Life Blood **NEW** of Root Cause Failure Analysis

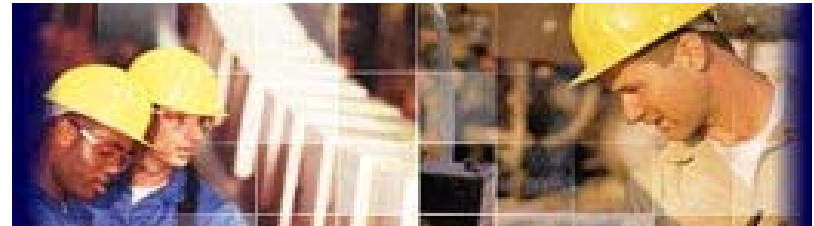
- People and Parts Evidence

Module 3 : Why We Need RCFA

- Reasons why we need RCFA

Module 4 : Why People Commit Mistakes

- Human Errors Defined
- Categories of Human Errors
- Anthropometric Factors
- Human Sensory Factors
- Physiological Factors
- Psychological Factors
- Types of Violations
- Personal Encounter with Human Error **NEW**



Day 2

Module 5 : Classic Cases on RCFA

- Challenger Disaster – January 28, 1986
- Video Showing on Challenger Disaster
- Workshop on Challenger Explosion
- Why RMS Titanic Sank ? (Optional)

Module 6 : Understanding Mechanical Failures

- Understanding mechanical wear
- Types of wear

Module 7 : RCFA Workshop

- Determine the Physical, Human and the Latent Cause of the Problem
- Case Study : Pump failure

Module 8 : Building RCFA as part of a Structured System

- Awarding of Certificates

Closing Remarks