

MACHINERY FAILURE ANALYSIS (REF:OTSMFOO1)

Course Objectives

To be able to analyse machinery failures.

Course Description

Machinery Failure and Root Cause Failure Analysis and the Crucial Role they are now playing in maximizing the reliability and the effectiveness of machinery for companies to remain competitive in a global market pace. The purpose of RCFA is to resolve problems that effect plant performance; the course will also outline when and when not to use Root Cause Failure Analysis and shall also look at a brief introduction to Asset Management.

Who Should Attend

Personnel involved with design, operation and maintenance of equipment, including supervisors, planners and engineers. It is also of value to those involved in failure analysis and those who are considering its use.

Pre-Requisites

All Attendees should have a sound power generation background.

Course Outcome

At the end of this course you will be able to analyse machinery failure.

Day 1

- Introduction
- Root Cause Failure Analysis
- The nature of Failure
- Purpose of the Analysis
- Effective use of the Analysis
- Root Cause Failure Analysis
- Failure Modes and Effects Analysis
- Fault – Tree Analysis
- Cause and Effect Analysis
- Sequence of Events Analysis

Day 2

- Machinery Reliability
- Risk Assessment and Management
- Dependability and Life Cycle Management
- Reliability and Maintainability
- Machinery Reliability
- Reliability Techniques
- Additional Issues Related to Failure Analysis
- Identifying and Making Distinctions between Problems & Opportunities

Day 3

- Additional Issues Related to Failure Analysis
- Identifying and Making Distinctions between Problems & Opportunities
- Ongoing Role of failure Analysis
- Condition Monitoring – an Introduction

Course Review and Feedback

