

REL102: Managing Reliability Improvement

COURSE:	Managing Reliability Improvement
DURATION:	2 Days
NUMBER OF STUDENTS:	15 maximum
VENUE:	Client to provide training facility and catering
OBJECTIVE:	A practical course addressing the integration of a range of reliability initiatives into an asset management strategy. This course covers RCM, Life Cycle Costing, Root Cause Analysis, Data Analysis and Plant Availability Simulation.

COURSE CONTENT:

Introduction

Maintenance Systems: Why do many maintenance management systems become reactive?
What are the elements necessary to change a system to proactive? Simulating the maintenance strategy in RCMCost.

RAMS Tools and Methods

Commonly used RAMS tools. Why they are important and when to use them
The role of reliability analysis

Using Computer Simulation

Why use simulation?
Making predictions using simulation
Does the maintenance plan meet production targets?
Assessing total life cycle costs

Root Cause Analysis

Defining the Problem
Cause and Effect Relationships
Effective Solutions
Implementation
Practical Weibull Analysis

Problem Reporting Objectives

Why are problem reports important?
How are they to be submitted?
What are the key sections of a problem/failure report form?
Explain each.

Weibull Distribution – what is it?

Advantages of using data analysis
When do I use Weibull?
Using work order history
Making decisions from failure curves

Reliability Management Objectives

What are the objectives of reliability management?
How does the reliability discipline interact with the rest of the organisation?
What metrics would you use?

Maintenance Decisions

Principles of RCM
Types of Maintenance
Evaluating maintenance alternatives – repair or replace
Generating optimum maintenance plans

Putting it all together - A Case Study

Contact Us

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