Maintenance Techniques and Analysis

3 Day Course

RGC-MTAC03

Rylson Group

Course Outline

Maintenance Techniques and Analysis	
Objective	Provide participants with the necessary tools and knowledge to enhance and improve the maintenance function within their organisation.
Benefits	▪ Staff able to manage maintenance effectively. ▪ Optimise maintenance costs. ▪ Increased equipment availability and reliability. ▪ Improved plant safety and profitability. ▪ Enhance maintenance management knowledge. ▪ Greater awareness of maintenance improvement opportunities. ▪ Ability to develop and implement optimal maintenance strategies. ▪ Increased analytical skills to measure and improve maintenance.
Who Should Attend?	This course is designed for **Managers, Maintenance Planners, Supervisors, Leading Hands, Production Personnel** and anyone who deals with Maintenance and wants to improve cost effectiveness and profitability.
Course Outline	Introduction to theoretical and practical aspects of Root Cause Analysis using the RCA Rt process including application of the RCA Rt process to a current workplace problem, distinguish between different types of problems in the workplace and provides problem solving methodologies and focuses on the RCA Rt three-stage process of 'Focus, Find, Fix Forever'.

1.0 WELCOME AND INTRODUCTION

Welcome and introductions

Course content

History of maintenance

2.0 IMPLEMENTING CHANGE OF THE MAINTENANCE FUNCTION

Develop a strategy for maintenance change

Identifying the key elements of implementing change

Practical tools for implementing change

3.0 TEROTECHNOLOGY AND OPTIMISING COSTS

Definition of Terotechnology

Life Cycle Costing (LCC)

Maintenance/production costs

Achieving the Optimum Cost Point

4.0 FUNDAMENTALS FOR A MAINTENANCE PROGRAM

Maintenance management policy

Systems and procedures required

Resource management

5.0 MAINTENANCE PROGRAM DEVELOPMENT

Identification of plant

Building a Plant Index

Prioritising

Introduction of FMECA

6.0 EQUIPMENT FUNCTION AND PERFORMANCE

Determining performance and function

Derivation of functional and performance statements

7.0 FAILURES AND FAILURE PATTERNS

Determine what constitutes failure

Hidden and multiple failures

Root Cause Analysis (RCA)

Failure patterns

8.0 FAILURE CONSEQUENCES AND RISK ASSESSMENT

Cost of production loss and secondary damage

Task frequency optimisation

Relationship between failures and production loss

9.0 IDENTIFYING MAINTENANCE TASKS

Identify the required maintenance to minimise the consequence and risk

10.0 DEVELOPING MAINTENANCE PROCEDURES

Suggested layout of a maintenance procedure

Need for feedback

11.0 PLANNING AND SCHEDULING MAINTENANCE

Discerning the difference
Shutdown planning
Nesting of calendar based tasks
Resource levelling
Use of contract labour

12.0 INTRODUCTION TO PROJECT MANAGEMENT (PM)

Project life cycle
PM organisation
Key elements of PM
PM tools

13.0 PERFORMANCE EVALUATION

Key Performance Indicators (KPI's)
Individual Desk Top Audit of the Seven Key Maintenance Program Elements
Taking action on the findings