



## Course Outline

2 day

## Reliability-Centred Maintenance

(2 day - (RCM))

### Objective

Introduce Reliability-centred Maintenance (RCM) including a historical perspective, the methodology, documentation options and the benefits it can deliver.

### Benefits

Reliability-centred Maintenance (RCM) is a process used to systematically and scientifically determine what must be done to ensure that physical assets continue to do what their users want them to do. Widely recognised by maintenance professionals as the most cost-effective way to develop world-class maintenance strategies, RCM leads to rapid, sustained and substantial improvements in asset availability and reliability, product quality, safety and environmental integrity.

### Who Should Attend

Asset managers, reliability engineers, maintenance superintendents, condition monitoring technicians, maintenance planners and schedulers, supervisors, team leaders, with responsibilities for the development and execution of maintenance strategies for physical assets, typically in asset intensive industries.



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### 1. The Changing Face of Maintenance

Definition of maintenance and it's evolution to contemporary standards and systems.

### 2. Reliability, Availability and Maintainability (RAM)

Reliability availability, maintainability and calculating RAM.

### 3. Introduction to Reliability centred Maintenance

A brief history of RCM, RCM defined and the benefits it offers.

### 4. Selecting Assets for RCM Analysis

Assessment criteria, an intuitive method, consequence and probability method including examples

of completed analyses.

### 5. RCM Documentation

Options for documenting the RCM analysis and resultant maintenance strategy (tactics) decisions.

### 6. The RCM Methodology

Functions and performance standards, functional failures, failure modes, failure effects, failure

consequences, maintenance tasks, the failure patterns and how to deal with them, the RCM

decision tree, the P-F interval and default tasks.

### 7. Applying the RCM Process

Planning & preparation, the RCM review group.