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Course Name

# Reliability Centered Maintenance (RCM): Strategies and Methodologies

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Sector Name

Maintenance & Reliability Management

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## Reliability Centered Maintenance (RCM): Strategies and Methodologies

### Course Introduction

RCM has been around for a long time and has been used extensively in Industry since the early 1990s. RCM is a very structured approach; however, variations have been developed to streamline the process. Reliability Centered Maintenance (RCM) is a process used to determine what must be done to ensure that a physical asset (Machine, Production Stage, etc.) continues to do what its users want it to do in its present operating context for the longest possible period at the highest possible efficiency. RCM has a Long and Rich history of success in improving asset performance for industries and companies around the world and in many different industries. With so many different RCMs' histories and their founding principles to follow, how can a company interested in adopting RCM determine what approach to take? RCM II is the more rigorous development of RCM.

### RCM's history and its founding principles.

In this course, participants will learn about RCM's history and its founding principles. We will gradually build a Maintenance System based on RCM principles. Interactive sessions simulating an RCM analysis will provide participants with some appreciation of the RCM process and its relation to other maintenance methodologies. Case

studies will be presented throughout the course to relate to the practical side. It focuses on RCM applied in Industry, principally the Power Sector, and other disciplines such as Oil & Gas Field. Modern Plants are more complex than their forerunners, and hence a more scientific approach to Maintenance is required. Reliability Centered Maintenance (RCM) has long been recognized as an excellent methodology for applying this scientific approach to the development of maintenance plans. Maintenance Managers today realize that maintenance plans must also be based on sound reliability principles. Guesswork is simply not good enough anymore. Also, safety has become paramount. It is no longer acceptable to expose personnel, plant, and the environment to the results of poor maintenance practices. RCM considers all these issues and is invaluable for addressing modern.

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## Reliability Centered Maintenance (RCM): Strategies and Methodologies

### Target Audience

- ✓ Facilities Engineer
- ✓ Facilities Engineering Manager
- ✓ Facilities Manager
- ✓ Facilities Specialist / Coordinator
- ✓ Health and Safety Engineer
- ✓ Maintenance Group Leader
- ✓ Maintenance Helper / Assistant
- ✓ Maintenance Manager
- ✓ Maintenance Superintendent
- ✓ Maintenance Supervisor
- ✓ Mechanical Reliability Engineer
- ✓ Network Reliability Engineer
- ✓ Operations and Maintenance Specialist
- ✓ Reliability Engineer

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## Reliability Centered Maintenance (RCM): Strategies and Methodologies

### Learning Objectives

- ✓ Make operating plant and equipment more Reliable and Available for utilization to reach to Optimization Condition.
- ✓ Audit Operational and Maintenance Performance to identify Improvement Opportunities.
- ✓ Design Optimum Maintenance Strategies for in-the-field Plant, Equipment, and Sub-systems.
- ✓ Make proper use of RCM results to deliver the High Performance Maintenance Activities.
- ✓ Identify a clear approach to Reliability improvement for both Fixed Plant and Moving Equipment.
- ✓ Select applicable technologies for Condition Monitoring and Predictive Maintenance.
- ✓ Appreciate how to use failure data and Industry Failure Databases and Standards.
- ✓ Introduce Reliability Growth Principles on New, Existing, or old Life Span Equipment or Systems.

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## Reliability Centered Maintenance (RCM): Strategies and Methodologies

### Course Outline

#### ✓ 01 DAY ONE

##### **Module (01) RCM History**

- ✓ Historical Background
- ✓ Basic Renewal Theory
- ✓ The Nature of Failure
- ✓ RCM Goals & Objectives
- ✓ Types of Maintenance
- ✓ FMEA and FMECA

##### **Module (02) Understanding Failures**

- ✓ Failure Concepts
- ✓ System and System Boundary
- ✓ Function and Functional Failure
- ✓ Failure Modes
- ✓ Failure Causes
- ✓ Failure Characteristics
- ✓ Cascading Failure
- ✓ Preventing Failure

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#### ✓ 02 DAY TWO

##### **Module (03) RCM Foundation (RCA)**

- ✓ Chronic vs. Sporadic Problems
- ✓ What is RCFA, and why is it done?
- ✓ SEVEN Generic Steps in an RCFA
- ✓ FMEA Procedures
- ✓ The Ishikawa Diagram
- ✓ Fault Tree Analysis
- ✓ Pareto Charts

##### **Module (04) RCM Process**

- ✓ Building RCM Process
- ✓ Prioritization of Plant Items
- ✓ Identification of Maintenance Significance Items
- ✓ Determine the Functional Failures for each Function
- ✓ Determine the Consequence of each Failure Mode
- ✓ Technical Feasibility versus Economic Feasibility
- ✓ Selecting Suitable Maintenance Tasks
- ✓ Workshop (Exercises)

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#### ✓ 03 DAY THREE

##### **Module (05) RCM Program Components**

- ✓ Statistics in Maintenance
- ✓ Specifications for NEW/Re-built Equipment
- ✓ Precision Rebuild and Installation
- ✓ Failed Part Analysis
- ✓ Rebuild Certification/Verification
- ✓ Aga Exploration
- ✓ Recurrence Control
- ✓ Event and Causal Factor Charting
- ✓ P-F Intervals

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### Course Outline

#### ✓ 04 DAY FOUR

##### **Module (06) Maintenance Planning & Scheduling**

- ✓ Measuring Workload Activities
- ✓ Expected Outcomes from Maintenance Plan
- ✓ Level of Planning
- ✓ Periodic Maintenance Scheduling (D/W/M/Y)
- ✓ Effective Planned Maintenance
- ✓ Manpower
- ✓ Spare Parts
- ✓ Tools
- ✓ Scheduling Techniques/ Procedures
- ✓ Establishing Priorities: “Look-Ahead Scheduling
- ✓ Maintenance Scheduling Check List

##### **Module (07) Measuring YOUR Progress (KPI's)**

- ✓ Selecting KEY Performance Indicators
- ✓ Rules to follow in Applying Metrics
- ✓ Maintain and Publish the Track
- ✓ RCM Metrics
- ✓ Examples

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#### ✓ 05 DAY FIVE

##### **Module (08) RCM Relation to Other Methodologies**

- ✓ Total Productive Maintenance (TPM)
- ✓ Maintenance Outsourcing
- ✓ Documentation Excellence for RCM
- ✓ Risk-Based Inspection (RBI)
- ✓ Economic Benefits

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## Reliability Centered Maintenance (RCM): Strategies and Methodologies

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Riyadh
April 26, 2027	April 30, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 7, 2026	Sept. 11, 2026	5 days	4250.00 \$	UAE , Dubai
Dec. 21, 2026	Dec. 25, 2026	5 days	5950.00 \$	USA , Los Angeles

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