MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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APPLICATION OF RELIABILITY CENTRED MAINTENANCE (RCM) TO OPTIMIZE OPERATION & MAINTENANCE

""Boosting Equipment Performance Through Structured Maintenance Strategies""

Schedule

Date	Venue	Fees (Face-to-Face)
20 – 21 Oct 2026	Muscat – Oman	USD 1995 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

In today\'s competitive and cost-conscious industrial environment, organizations cannot afford unscheduled downtime or inefficient maintenance practices. Reliability Centred Maintenance (RCM) is a proven methodology used to optimize maintenance strategies, enhance equipment reliability, and minimize operational risks.

This intensive 2-day training introduces participants to the core principles and applications of RCM. Through hands-on sessions, real-world examples, and practical tools, attendees will learn how to identify critical assets, assess failure modes, and implement the most effective preventive and predictive maintenance strategies.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals and benefits of Reliability Centred Maintenance (RCM)
- Identify asset functions, failure modes, and consequences
- Apply RCM logic to develop optimized maintenance strategies
- Distinguish between reactive, preventive, predictive, and condition-based maintenance
- Integrate RCM into existing operational and maintenance systems

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Why Attend

- Reduce maintenance costs and improve asset performance
- Enhance operational efficiency through reliability-driven maintenance
- Prevent unexpected equipment failures and increase safety
- Implement best-in-class maintenance strategies based on actual equipment needs
- Gain a structured framework to prioritize maintenance resources

Target Audience

This program is designed for:

- Maintenance Engineers and Supervisors
- Operations and Production Managers
- Reliability Engineers and Asset Managers
- Plant and Facility Managers
- CMMS and Maintenance Planners

Individual Benefits

Key competencies that will be developed include:

- RCM methodology and decision logic
- Failure Modes and Effects Analysis (FMEA)
- Strategy development for different asset types
- Cost-effective maintenance planning
- Integration of RCM with CMMS tools

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved reliability and availability of critical assets
- Reduction in maintenance costs and downtime
- Better alignment of maintenance strategy with operational goals
- Enhanced safety and risk management practices
- Standardized maintenance decision-making across departments

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Core RCM principles, asset criticality, and failure mode identification
- Case Studies – Examples from manufacturing, energy, and infrastructure sectors
- Workshops – Building failure mode analyses and maintenance task selection
- Peer Exchange – Sharing of maintenance challenges and RCM applications
- Tools – FMEA worksheets, RCM logic diagrams, and task selection templates

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Course Outline

DETAILED 2-DAY COURSE OUTLINE

Training Hours: 07:30 AM – 03:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Foundations of RCM and Failure Mode Analysis

- Module 1: Introduction to Reliability Centred Maintenance (07:30 – 09:30) • What is RCM and why it matters • History and evolution of maintenance strategies • Comparison: reactive vs preventive vs predictive
- Module 2: Asset Functions and Functional Failures (09:45 – 11:15) • Identifying primary and secondary functions of assets • Understanding performance standards and deviations • Defining functional failures
- Module 3: Failure Modes and Their Effects (11:30 – 01:00) • Causes of failure: wear, fatigue, design, human error • Introduction to Failure Modes and Effects Analysis (FMEA) • Linking failure effects to operational consequences
- Module 4: Workshop – Asset and Failure Mode Mapping (02:00 – 03:30) • Group exercise on documenting asset functions and potential failure modes

Day 2: Maintenance Task Selection and Implementation

- Module 5: RCM Decision Logic and Task Selection (07:30 – 09:30) • RCM decision tree: criteria and logic • Types of tasks: preventive, predictive, run-to-failure • When to choose which strategy
- Module 6: Cost and Risk-Based Prioritization (09:45 – 11:15) • Linking RCM to risk management • Criticality analysis and asset hierarchy • Optimizing cost vs consequence trade-offs
- Module 7: RCM Implementation Framework (11:30 – 01:00) • Steps to implement RCM in your organization • Stakeholder roles and responsibilities • Integration with CMMS and planning tools
- Module 8: Workshop – Task Strategy for Critical Equipment (02:00 – 03:30) • Hands-on development of an RCM plan • Peer review and instructor feedback

Certification

Participants will receive a Certificate of Completion in Reliability Centred Maintenance (RCM) Application, validating their practical knowledge and ability to apply RCM to optimize operational performance and maintenance strategies.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**