MAWA EVENTS

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

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RELIABILITY CENTERED MAINTENANCE PLANNING & PROCESS MANAGEMENT

""Optimizing Maintenance Strategies for Improved Asset Reliability and Performance""

Schedule

Date	Venue	Fees (Face-to-Face)
20 – 24 Apr 2026	London, UK	USD 3495 per delegate

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

Introduction

Reliability Centered Maintenance (RCM) is a structured process used to determine the most effective and efficient maintenance strategy for assets to maximize their reliability and performance. This 5-day course is designed for maintenance managers, engineers, and professionals involved in planning and managing maintenance processes. Participants will learn how to implement RCM principles to improve asset performance, reduce downtime, and lower maintenance costs.

The course covers RCM concepts, maintenance process management, and best practices for applying RCM to develop proactive maintenance strategies. Through case studies, group discussions, and hands-on exercises, participants will gain the skills needed to integrate RCM into their organization\'s maintenance programs.

Objectives

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

- Understand the principles of Reliability Centered Maintenance (RCM).
- Apply RCM methodologies to develop effective maintenance strategies for different assets.
- Analyze failure modes and their consequences to determine the appropriate maintenance actions.
- Develop preventive, predictive, and corrective maintenance strategies based on RCM analysis.
- Manage and optimize maintenance processes to improve asset reliability and reduce downtime.
- Implement RCM in a way that aligns with organizational goals and industry standards.

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Why Attend

- Learn how to optimize maintenance strategies to maximize asset reliability and performance.
- Gain practical knowledge in applying RCM methodologies to different types of assets and industries.
- Improve your ability to prioritize maintenance tasks based on risk and criticality.
- Enhance your skills in developing proactive maintenance programs that reduce unplanned downtime.
- Learn best practices for implementing and managing RCM programs within your organization.
- Develop strategies to manage maintenance processes more efficiently and cost-effectively.

Target Audience

This program is designed for:

- Maintenance managers, engineers, and supervisors
- Reliability engineers and specialists
- Professionals involved in asset management and process improvement
- Individuals responsible for implementing maintenance strategies and programs
- Anyone seeking to improve asset performance and reliability through effective maintenance planning

Individual Benefits

Key competencies that will be developed include:

- Advanced knowledge of Reliability Centered Maintenance principles and techniques.
- Proficiency in analyzing asset performance and determining the appropriate maintenance actions.
- Ability to develop and manage preventive, predictive, and corrective maintenance strategies.
- Enhanced skills in prioritizing and optimizing maintenance tasks based on asset criticality and risk.
- Expertise in implementing RCM strategies to improve reliability, reduce downtime, and lower maintenance costs.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Increased asset reliability and performance through the implementation of RCM strategies.
- Reduced maintenance costs and unplanned downtime by optimizing maintenance activities.
- Better alignment of maintenance processes with organizational goals and industry standards.
- Improved risk management through proactive failure analysis and decision-making.
- Enhanced ability to manage and optimize maintenance processes for long-term sustainability.

Instructional Methodology

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

- Strategy Briefings – In-depth discussions on RCM principles, methodologies, and best practices for maintenance process management.
- Case Studies – Real-world examples of successful RCM implementation and lessons learned from different industries.
- Workshops – Hands-on exercises for applying RCM techniques to develop maintenance strategies and process improvements.
- Peer Exchange – Group discussions on challenges and solutions related to RCM implementation in different organizational settings.
- Tools – Practical templates and tools for implementing RCM strategies in maintenance planning and process management.

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Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Reliability Centered Maintenance (RCM)

- Module 1: Overview of RCM Principles (07:30 – 09:30)
- The evolution of maintenance strategies: Reactive vs. proactive approaches
- Key principles and benefits of Reliability Centered Maintenance
- The RCM process and its role in asset management
- Module 2: RCM Methodology and Process (09:45 – 11:15)
- The RCM analysis process: defining assets, failure modes, consequences, and maintenance actions
- Determining criticality and failure modes for asset performance
- Best practices for implementing RCM methodologies in an organization
- Module 3: Identifying Asset Failure Modes (11:30 – 01:00)
- Common failure modes in mechanical, electrical, and other industrial systems
- Techniques for failure mode identification and assessment
- Tools for analyzing the consequences of asset failures

Day 2: RCM Analysis and Maintenance Strategies

- Module 1: Developing Preventive and Predictive Maintenance Strategies (07:30 – 09:30)
- Defining and implementing preventive maintenance based on RCM analysis
- The role of predictive maintenance in improving asset reliability
- Techniques for condition monitoring and predictive maintenance
- Module 2: Corrective Maintenance and Risk Management (09:45 – 11:15)
- Corrective maintenance strategies: when to repair or replace assets
- Balancing corrective maintenance with preventive and predictive strategies
- Managing risk through proper maintenance planning and decision-making
- Module 3: Creating RCM Action Plans (11:30 – 01:00)
- Developing actionable plans based on RCM findings
- Implementing maintenance tasks in alignment with RCM recommendations
- Monitoring and adjusting maintenance plans for continuous improvement

Day 3: Advanced RCM Concepts and Implementation

- Module 1: Managing RCM Data and Documentation (07:30 – 09:30)
- Organizing and documenting RCM analysis results
- Using data to track asset performance and maintenance activities
- Best practices for maintaining RCM documentation and audit trails
- Module 2: RCM in Different Industries and Applications (09:45 – 11:15)
- Adapting RCM principles to various industries: oil and gas, manufacturing, power generation, etc.
- Case studies of RCM implementation in diverse sectors
- Customizing RCM strategies for specific operational needs and assets
- Module 3: Performance Measurement and Continuous Improvement (11:30 – 01:00)
- Key performance indicators (KPIs) for measuring the effectiveness of RCM strategies
- Techniques for continuous improvement through RCM analysis and feedback
- Using performance data to refine maintenance strategies and enhance asset reliability

Day 4: Risk Assessment and Process Optimization

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Module 1: Risk-Based Maintenance and Prioritization (07:30 – 09:30)

- Risk assessment techniques for prioritizing maintenance tasks
- Determining the criticality of assets and their impact on operations
- Managing resource allocation based on asset risk and importance
- Module 2: Optimizing Maintenance Processes (09:45 – 11:15)
- Streamlining maintenance processes using RCM methodologies
- Identifying inefficiencies and eliminating bottlenecks in maintenance workflows
- Tools and techniques for optimizing resource use and reducing downtime
- Module 3: Integrating RCM with Other Maintenance Strategies (11:30 – 01:00)
- Integrating RCM with Total Productive Maintenance (TPM), Lean, and Six Sigma
- Coordinating RCM efforts with broader organizational goals and strategies
- Enhancing RCM with digital tools and technologies

Day 5: Final Review and Action Plan

- Module 1: Final Review of RCM Techniques (07:30 – 09:30)
- Recap of key concepts, tools, and strategies covered in the course
- Reviewing real-world RCM applications and success stories
- Module 2: Developing an RCM Implementation Plan (09:45 – 11:15)
- Creating an action plan for integrating RCM into your organization
- Identifying key stakeholders and resources for RCM implementation
- Addressing challenges and overcoming barriers to RCM adoption
- Module 3: Course Conclusion and Certification Review (11:30 – 01:00)
- Final Q&A session and review of course materials
- Preparing for certification exam and closing discussion

Certification

Upon completing the training course, participants will receive a Certificate of Completion in Reliability Centered Maintenance Planning & Process Management, validating their ability to apply RCM methodologies to optimize maintenance strategies, improve asset reliability, and reduce costs.

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**