MAWA EVENTS

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

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MOVING BEYOND TOTAL PLANT MAINTENANCE TO TOTAL PLANT RELIABILITY

"Transform Maintenance Practices into a Culture of Reliability, Performance & Asset Optimization"

Schedule

Date	Venue	Fees (Face-to-Face)
27 – 29 Oct 2026	Doha – Qatar	USD 2495 per delegate
11 – 13 Nov 2026	Dubai – UAE	USD 2495 per delegate

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

Introduction

While traditional plant maintenance focuses on equipment availability, achieving true operational excellence requires a shift toward holistic plant reliability. Total Plant Reliability (TPR) integrates maintenance with engineering, operations, and culture to ensure asset performance, longevity, and safety.

This 3-day intensive course helps maintenance leaders and engineers evolve from reactive maintenance to proactive reliability strategies. It focuses on optimizing asset life cycles, implementing root cause analysis, condition monitoring, and aligning maintenance with operational goals.

Objectives

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

- Differentiate between traditional maintenance and reliability-centered approaches
- Implement reliability-focused KPIs and asset performance metrics
- Apply root cause analysis and failure prevention strategies
- Integrate condition-based monitoring and predictive maintenance practices
- Create a culture of reliability across operations and maintenance teams

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Why Attend

- Shift your team’s focus from firefighting to long-term asset reliability
- Gain practical strategies to improve uptime and reduce failure rates
- Learn how to design and implement a plant-wide reliability roadmap
- Strengthen interdepartmental alignment between maintenance, operations, and engineering
- Discover world-class practices from high-reliability industrial environments

Target Audience

This program is designed for:

- Maintenance and reliability engineers
- Plant managers and maintenance supervisors
- Asset management professionals
- Operations, HSE, and production leaders
- Anyone involved in improving plant performance and equipment reliability

Individual Benefits

Key competencies that will be developed include:

- Asset performance management and reliability strategy development
- Condition monitoring and failure prediction techniques
- Leadership in maintenance culture transformation
- Analysis and elimination of chronic equipment failures
- Cross-functional communication and reliability reporting

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved equipment reliability and plant availability
- Reduced downtime, maintenance costs, and reactive work
- Enhanced safety, environmental, and operational performance
- Increased return on assets (ROA) and maintenance effectiveness
- Adoption of a plant-wide reliability mindset and best practices

Instructional Methodology

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

- Strategy Briefings – Reliability-centered maintenance frameworks and KPIs
- Case Studies – Plant reliability transformations and lessons learned
- Workshops – Asset failure analysis, FMEA exercises, and reliability planning
- Peer Exchange – Cross-industry examples and performance benchmarking
- Tools – Reliability scorecards, condition monitoring checklists, and RCA templates

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Course Outline

DETAILED 3-DAY 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: Understanding Reliability Beyond Maintenance

- Module 1: Introduction to Reliability Concepts (07:30 – 09:30) • Evolution from preventive maintenance to reliability-focused strategies
- Module 2: The Business Case for Reliability (09:45 – 11:15) • KPIs, financial impacts, and performance benchmarking
- Module 3: Workshop – Maintenance Maturity Assessment (11:30 – 01:00) • Evaluate current practices using reliability maturity models
- Module 4: Aligning Maintenance & Operations (02:00 – 03:30) • Bridging silos for collaborative reliability efforts

Day 2: Tools & Techniques for Reliability Engineering

- Module 1: Root Cause Failure Analysis (RCFA) (07:30 – 09:30) • Techniques for identifying and eliminating failure causes
- Module 2: Condition Monitoring & Predictive Maintenance (09:45 – 11:15) • Vibration analysis, thermography, oil analysis, and ultrasonic testing
- Module 3: Workshop – Case-Based RCFA Exercise (11:30 – 01:00) • Investigate a real-world failure and develop action plans
- Module 4: Failure Modes and Effects Analysis (FMEA) (02:00 – 03:30) • Risk prioritization and proactive mitigation

Day 3: Building a Culture of Plant Reliability

- Module 1: Planning for Reliability Implementation (07:30 – 09:30) • Strategic roadmaps, KPIs, and change management
- Module 2: Reliability Leadership and Behavior Change (09:45 – 11:15) • Creating ownership, accountability, and team alignment
- Module 3: Workshop – Designing a Plant Reliability Program (11:30 – 01:00) • Draft your site-specific reliability improvement plan
- Module 4: Wrap-Up – Review, Q&A, and Action Plans (02:00 – 03:30) • Group feedback and commitments for implementation

Certification

Participants will receive a Certificate of Completion in Moving Beyond Total Plant Maintenance to Total Plant Reliability, validating their ability to lead plant reliability transformations and implement sustainable, performance-driven 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**