**MAWA EVENTS**

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

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# UNDERSTANDING & IMPLEMENTING THE APMS MODEL IN INDUSTRIAL PLANTS

*"Advance Asset Performance with APMS – Aligning Reliability, Availability, and Maintenance Excellence"*

## Schedule

| Date | Venue | Fees (Face-to-Face) |
|---|---|---|
| 07 – 11 Sep 2026 | Singapore | USD 3495 per delegate |

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

## Introduction

As industrial operations face increasing pressure to improve reliability, reduce downtime, and maximize asset utilization, adopting a comprehensive Asset Performance Management System (APMS) becomes a strategic imperative. The APMS model provides a structured approach to optimize maintenance, integrate condition monitoring, and ensure lifecycle performance of critical assets.

This intensive course equips plant engineers, reliability managers, and maintenance leaders with practical knowledge of the APMS model, its pillars, and implementation roadmap. Participants will gain actionable insights into how to build a data-driven, predictive, and sustainable maintenance culture.

## Objectives

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

- Understand the components, principles, and drivers of the APMS model
- Align maintenance and reliability strategies with business performance goals
- Apply tools and metrics to monitor and improve asset performance
- Develop implementation roadmaps for APMS integration in existing systems
- Promote a culture of reliability, risk management, and data-driven decision-making

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## Why Attend

- Learn how to transform traditional maintenance practices into a performance-driven framework
- Discover how to integrate technology, processes, and people in APMS execution
- Reduce unplanned downtime, extend asset life, and enhance plant productivity
- Gain practical tools and models to benchmark and optimize plant performance
- Network with peers and share lessons from successful APMS implementations

## Target Audience

This program is designed for:

- Plant managers, operations and maintenance heads
- Reliability and maintenance engineers
- Asset integrity and performance professionals
- CMMS/EAM specialists and industrial data analysts
- Anyone involved in performance optimization and asset lifecycle management

## Individual Benefits

Key competencies that will be developed include:

- Understanding of APMS architecture and strategic alignment
- Maintenance strategy selection and optimization (RCM, TPM, PdM)
- Use of KPIs and dashboards for asset performance monitoring
- Risk-based asset prioritization and lifecycle planning
- Change management for reliability culture building

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved reliability and reduced cost of asset ownership
- Enhanced visibility into plant performance and risk exposure
- Streamlined maintenance planning and improved resource allocation
- Increased ROI from digital tools like CMMS, IoT sensors, and predictive analytics
- Organizational alignment toward continuous improvement and reliability excellence

## Instructional Methodology

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

- Strategy Briefings – Detailed breakdown of APMS framework and strategic drivers
- Case Studies – Global best practices and lessons learned from industrial leaders
- Workshops – Asset performance analysis, APMS roadmapping, and gap assessments
- Peer Exchange – Sharing implementation challenges and cross-sector insights
- Tools – Templates for APMS audits, strategy maps, maturity models, and KPIs

## Course Outline

DETAILED 5-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: Foundations of APMS in Industrial Operations**

- Module 1: Introduction to the APMS Model (07:30 – 09:30) • Evolution of asset performance management in industry • Key drivers: reliability, availability, maintainability, safety • APMS structure, objectives, and business alignment
- Module 2: Components of a Successful APMS (09:45 – 11:15) • Strategic pillars: data, systems, people, and process • Functional integration: CMMS, reliability tools, and sensors • APMS maturity model overview
- Module 3: Workshop – APMS Gap Assessment (11:30 – 01:00) • Participants assess current maturity and performance gaps
- Module 4: Group Discussion – APMS Benefits & Barriers (02:00 – 03:30) • Sharing challenges and opportunities in APMS adoption

**Day 2: Maintenance Strategy and Reliability Integration**

- Module 1: Maintenance Strategy Hierarchy (07:30 – 09:30) • RTF, PM, PdM, TPM, and RCM explained • Selecting appropriate strategies by asset criticality
- Module 2: Reliability Engineering in APMS (09:45 – 11:15) • Failure modes, FMEA, and RCFA integration • Reliability block diagrams and life data analysis
- Module 3: Risk-Based Asset Prioritization (11:30 – 01:00) • Using risk matrices and asset criticality ranking • Linking performance to safety and production impact
- Module 4: Workshop – Maintenance Optimization (02:00 – 03:30) • Building a hybrid strategy for a sample plant scenario

**Day 3: Performance Metrics, Reporting & Decision Support**

- Module 1: KPI Framework for Asset Performance (07:30 – 09:30) • Leading and lagging indicators: MTBF, OEE, availability • Creating dashboards and visualizing trends
- Module 2: Cost and Performance Reporting (09:45 – 11:15) • Maintenance cost tracking and budget planning • Linking cost with performance, value, and reliability
- Module 3: Digital Tools and Data Utilization (11:30 – 01:00) • Leveraging CMMS, EAM, and IIoT in APMS • Using condition monitoring and analytics
- Module 4: Workshop – KPI Dashboard Design (02:00 – 03:30) • Participants design visual reports using real metrics

**Day 4: Change Management and Workforce Enablement**

- Module 1: Building a Reliability Culture (07:30 – 09:30) • Leadership engagement and communication strategies • Empowering teams and closing the skills gap
- Module 2: Training and Competency Development (09:45 – 11:15) • Defining roles, responsibilities, and training needs • Certification programs and ongoing development
- Module 3: Stakeholder Alignment (11:30 – 01:00) • Cross-functional coordination in APMS deployment • Overcoming resistance to change
- Module 4: Workshop – APMS Communication Plan (02:00 – 03:30) • Teams build internal communication strategies for rollout

**Day 5: APMS Implementation Roadmap**

- Module 1: Phased APMS Rollout (07:30 – 09:30) • Planning, piloting, scaling, and sustaining APMS • Tools for progress tracking and governance
- Module 2: Continuous Improvement and Audit (09:45 – 11:15) • Auditing APMS for compliance and performance • Using feedback loops for refinement
- Module 3: Action Plan Development (11:30 – 01:00) • Participants draft APMS implementation roadmaps
- Module 4: Final Presentations & Feedback (02:00 – 03:30) • Group presentations and peer feedback

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## Certification

Participants will receive a Certificate of Completion in Understanding & Implementing the APMS Model in Industrial Plants, validating their ability to plan, deploy, and optimize Asset Performance Management Systems to drive operational excellence and asset reliability.

## 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.

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