MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

TECHNICAL AND OPERATIONAL ASSET MANAGEMENT

"Maximizing Asset Value, Performance, and Lifecycle Through Strategic Engineering and Operational Excellence"

Schedule

Date	Venue	Fees (Face-to-Face)
07 – 11 Dec 2026	London, UK	USD 3495 per delegate

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

Introduction

Asset-intensive organizations face the challenge of balancing cost, risk, and performance across the full lifecycle of physical assets. Technical and operational asset management provides a structured framework for achieving this balance—aligning engineering, operations, and maintenance efforts to deliver maximum asset value and sustainability.

This comprehensive 5-day course equips asset managers, engineers, and operations leaders with essential tools and methodologies based on ISO 55000 standards and best practices. Participants will learn how to integrate asset management systems, optimize asset lifecycle strategies, and drive performance through data-driven decision-making, risk control, and continuous improvement.

Objectives

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

- Understand the principles of technical and operational asset management
- Align asset performance with organizational goals and regulatory requirements
- Develop asset lifecycle strategies covering acquisition, operation, and retirement
- Implement asset risk management, condition monitoring, and performance measurement
- Integrate asset management plans with reliability, maintenance, and financial systems

MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

Why Attend

- To enhance asset reliability, availability, and service life
- To reduce total cost of ownership through informed decision-making
- To align maintenance and operations with long-term asset strategies
- To meet ISO 55000 standards and demonstrate asset stewardship
- To improve collaboration across engineering, finance, and operations functions

Target Audience

This program is designed for:

- Asset managers and reliability engineers
- Maintenance and operations supervisors
- Plant and facility managers
- Engineering professionals responsible for lifecycle asset performance
- Risk, compliance, and quality assurance personnel

Individual Benefits

Key competencies that will be developed include:

- Asset lifecycle planning and capital decision support
- Asset performance analysis using KPIs and benchmarking
- Risk-based decision-making and failure mode assessment
- Integration of CMMS, EAM, and asset information systems
- Strategic alignment with ISO 55000, PAS 55, and other global standards

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved return on assets (ROA) and reduced lifecycle costs
- Stronger alignment between maintenance, finance, and operations
- Reduced asset-related risks and enhanced operational safety
- Enhanced long-term planning and investment prioritization
- Compliance with regulatory and sustainability expectations

Instructional Methodology

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

- Strategy Briefings: ISO 55000 principles, governance models, and performance frameworks
- Case Studies: Successful implementation of asset management in utilities, oil & gas, manufacturing
- Workshops: Asset hierarchy design, risk assessment, and lifecycle cost modeling
- Peer Exchange: Real-world asset challenges and collaborative solutions
- Tools: Asset register templates, risk matrices, performance dashboards, and CMMS planning guides

MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

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 Asset Management

- Module 1: Introduction to Technical and Operational Asset Management (07:30 – 09:30) • Asset classes, definitions, and business value
- Module 2: ISO 55000 and International Best Practices (09:45 – 11:15) • Principles of asset management systems and maturity
- Module 3: Workshop – Asset Hierarchy and Register Development (11:30 – 01:00) • Structuring asset data for control and reporting
- Module 4: Governance and Policy Development (02:00 – 03:30) • Roles, responsibilities, and strategic alignment

Day 2: Lifecycle Strategies and Planning

- Module 5: Lifecycle Asset Management Planning (07:30 – 09:30) • From acquisition to disposal and decommissioning
- Module 6: Capital and Operational Decision Support (09:45 – 11:15) • Life cycle costing (LCC) and Net Present Value (NPV) models
- Module 7: Workshop – Creating an Asset Lifecycle Strategy (11:30 – 01:00) • Planning for long-term reliability and ROI
- Module 8: Asset Information and Documentation Management (02:00 – 03:30) • Integrating EAM/CMMS data with operational systems

Day 3: Asset Performance and Risk Management

- Module 9: Performance Measurement and KPIs (07:30 – 09:30) • MTBF, MTTR, OEE, availability, utilization
- Module 10: Risk-Based Asset Management (09:45 – 11:15) • Criticality analysis, FMEA, and risk prioritization
- Module 11: Workshop – Asset Risk Assessment (11:30 – 01:00) • Building and applying a risk matrix
- Module 12: Condition Monitoring and Predictive Maintenance (02:00 – 03:30) • Vibration, thermography, oil analysis, and IoT integration

Day 4: Reliability, Maintenance, and Optimization

- Module 13: Reliability-Centered Maintenance (RCM) and PM Optimization (07:30 – 09:30) • RCM principles, PM strategies, and optimization tools
- Module 14: Work Management and Scheduling (09:45 – 11:15) • Backlog management, job planning, and resource allocation
- Module 15: Workshop – Maintenance Strategy Evaluation (11:30 – 01:00) • Aligning PM programs with performance goals
- Module 16: Failure Investigation and Root Cause Analysis (02:00 – 03:30) • RCA frameworks and reporting

Day 5: Integration, Improvement, and Certification

- Module 17: Integrating Asset Management with Finance and Strategy (07:30 – 09:30) • Asset investment planning and lifecycle budgeting
- Module 18: Sustainability, Compliance, and Digital Transformation (09:45 – 11:15) • ESG goals, digital twins, and Industry 4.0 alignment
- Module 19: Workshop – Developing an Asset Management Action Plan (11:30 – 01:00) • Real-world application of tools and strategies
- Module 20: Wrap-Up and Certification (02:00 – 03:30) • Group presentations, action plans, and course feedback

Certification

Participants will receive a Certificate of Completion in Technical and Operational Asset Management, validating their expertise in applying ISO 55000-based strategies to optimize asset value, risk, and performance.

MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

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**

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.