

# ADVANCED MAINTENANCE PLANNING & SCHEDULING FOR HIGHER RELIABILITY

*“Optimizing Maintenance Strategies for Maximum Asset Uptime and Cost Efficiency”*

## Schedule

Date	Venue	Fees
26 - 27 Feb 2026	Kuala Lumpur, Malaysia	USD 1995 per delegate

## Introduction

In high-reliability environments, maintenance planning and scheduling play a pivotal role in reducing downtime, extending asset life, and minimizing costs. However, traditional approaches often fall short in complex or dynamic operational settings. This advanced course is designed to take your maintenance practices to the next level—moving from reactive to proactive, and from scheduled to strategic.

This two-day, hands-on training provides participants with advanced tools and proven methodologies to improve maintenance efficiency, align with reliability-centered principles, and integrate with production and operations planning. The course focuses on optimizing resource utilization, applying predictive techniques, and embedding continuous improvement into the maintenance workflow.

## Objectives

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

- Apply best practices in advanced maintenance planning and scheduling
- Use risk-based and reliability-centered approaches to prioritize tasks
- Optimize the use of labor, tools, and materials through precise scheduling
- Align maintenance plans with operational goals and asset criticality
- Reduce maintenance backlogs, emergency work, and unnecessary downtime

## Why Attend

- Learn advanced strategies to drive higher equipment reliability and efficiency
- Minimize unplanned downtime through better planning and coordination
- Enhance the integration of planning with procurement and operations
- Improve decision-making using KPIs, CMMS, and data-driven insights
- Strengthen workforce productivity and work order execution

## Target Audience

This program is designed for:

- Maintenance and reliability engineers
- Planners and schedulers
- Maintenance supervisors and team leaders
- CMMS coordinators and asset managers
- Operations and production professionals involved in maintenance integration

## Individual Benefits

Key competencies that will be developed include:

- Advanced planning and scheduling logic and techniques
- Proficiency in work order prioritization and backlog management
- Skills in using maintenance KPIs and performance metrics
- Understanding of predictive and condition-based maintenance integration
- Enhanced coordination across departments to reduce downtime

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved asset reliability and equipment availability
- Streamlined maintenance workflows and cost savings
- Fewer breakdowns, repeat failures, and reactive interventions
- Enhanced integration between maintenance and operations teams
- Greater return on investment from maintenance systems and CMMS tools

## Instructional Methodology

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

- Strategy Briefings - Industry best practices and failure prevention models
- Case Studies - Real examples of successful planning and scheduling transformation
- Workshops - Interactive planning simulations and CMMS utilization
- Peer Exchange - Troubleshooting and lessons learned in various industries
- Tools - Templates for backlog control, weekly scheduling, and performance dashboards

## Course Outline

### DETAILED 2-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 Advanced Maintenance Planning

- Module 1: The Role of Planning in Reliability (07:30 – 09:30) • Maintenance planning vs. scheduling • How planning impacts reliability and operational performance • Maturity models in planning and scheduling
- Module 2: Job Scope Definition and Work Order Management (09:45 – 11:15) • Scope clarity, priority setting, and standard job plans • Managing backlog and work request approvals • CMMS setup for planning accuracy
- Module 3: Resource Optimization and Materials Coordination (11:30 – 01:00) • Planning labor, tools, and spares efficiently • Planning windows and lead times • Integration with procurement and stores
- Module 4: Workshop – Build a Maintenance Work Package (02:00 – 03:30) • Participants create a detailed job package with resource breakdown and estimated duration

#### Day 2: Scheduling for Reliability and Performance

- Module 1: Weekly and Daily Scheduling Tactics (07:30 – 09:30) • Developing realistic and efficient weekly schedules • Level loading, shift alignment, and rolling schedules • Scheduling software and Gantt chart applications
- Module 2: Managing Emergencies, Break-ins & KPIs (09:45 – 11:15) • Handling unplanned work and minimizing disruptions • Key metrics: schedule compliance, wrench time, mean time to repair • Root cause tracking from schedule deviations
- Module 3: Reliability-Centered Planning and Predictive Tools (11:30 – 01:00) • Linking asset criticality to work prioritization • Condition-based and predictive maintenance integration • Planning PMs, PdMs, and failure analysis tasks
- Module 4: Final Workshop – 90-Day Planning Improvement Strategy (02:00 – 03:30) • Participants build a custom plan to improve their organization’s planning maturity • Group sharing and coaching on implementation barriers

## Certification

Participants will receive a Certificate of Completion in Advanced Maintenance Planning & Scheduling for Higher Reliability, affirming their readiness to lead advanced planning functions that improve maintenance efficiency, reduce costs, and enhance asset performance.

## 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.