MAWA EVENTS

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

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

PLANT SHUTDOWN & START-UP

"Master the Planning, Execution, and Control of Plant Turnarounds to Minimize Downtime and Ensure Safe, Efficient Restarts"

Schedule

Date	Venue	Fees (Face-to-Face)
02 – 06 Feb 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Shutdowns and start-ups are critical periods in any plant's lifecycle. These high-risk, high-cost events must be executed with precision to ensure equipment integrity, personnel safety, environmental compliance, and business continuity. Poorly managed shutdowns can lead to delays, cost overruns, and post-startup failures.

This practical 5-day training equips participants with the tools, techniques, and best practices needed to plan, manage, and optimize shutdown and start-up activities. It covers every phase—from scoping and planning through to execution and commissioning—based on international standards and real-world experience in high-risk industrial environments.

Objectives

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

- Understand the full lifecycle of plant shutdowns and start-ups
- Define shutdown scopes, roles, budgets, and timelines
- Develop detailed execution and resource plans
- Identify and mitigate shutdown risks
- Manage contractors, safety compliance, and logistics
- Ensure safe, effective, and timely restart of equipment and systems

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Why Attend

- Learn industry best practices for minimizing shutdown duration and costs
- Reduce operational and safety risks during critical transitions
- Improve coordination across departments, vendors, and contractors
- Gain practical planning tools, templates, and execution frameworks
- Ensure system reliability and performance post start-up

Target Audience

This program is designed for:

- Plant engineers and shutdown coordinators
- Maintenance, production, and operations managers
- Turnaround planners and project engineers
- HSE personnel involved in shutdown planning
- Contractors and supervisors supporting major shutdown activities

Individual Benefits

Key competencies that will be developed include:

- Effective planning and execution of turnarounds
- Use of shutdown planning software and schedules
- Contractor and resource management
- Post-startup performance assessment
- Safety and compliance assurance under shutdown conditions

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced total shutdown time and costs
- Improved asset reliability and operational readiness
- Increased safety performance and risk management
- Better cross-functional collaboration during critical events
- Documented lessons learned for continuous improvement

Instructional Methodology

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

- Strategy Briefings – Shutdown lifecycle, risk management, and scheduling principles
- Case Studies – Turnaround successes and failures across sectors
- Workshops – Developing shutdown plans, risk registers, and startup checklists
- Peer Exchange – Shared lessons from field experience and shutdown roles
- Tools – Gantt charts, resource matrices, and commissioning templates

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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: Introduction to Shutdown and Turnaround Management

- Module 1: Shutdown Planning Fundamentals (07:30 – 09:30) • Phases of a shutdown: initiation, planning, execution, close-out • Critical success factors for safe and efficient shutdowns • Key team roles and coordination
- Module 2: Shutdown Scope Development (09:45 – 11:15) • Identifying inspection, maintenance, and upgrade tasks • Differentiating must-do vs. nice-to-do work • Scope control and change management
- Module 3: Work Breakdown and Task Definition (11:30 – 01:00) • Creating work packages and job cards • Defining job steps, materials, and required permits
- Module 4: Workshop – Shutdown Scope Mapping (02:00 – 03:30) • Group activity to develop a shutdown scope matrix

Day 2: Scheduling, Budgeting, and Resource Planning

- Module 1: Time Estimation and Scheduling (07:30 – 09:30) • Techniques: Gantt charts, CPM, PERT, float analysis • Critical path identification and optimization
- Module 2: Budgeting and Cost Control (09:45 – 11:15) • Estimating labor, material, rental, and contractor costs • Managing variances and cost tracking systems
- Module 3: Resource and Logistics Planning (11:30 – 01:00) • Labor planning and shift schedules • Equipment staging, material availability, and temporary facilities
- Module 4: Workshop – Create a Shutdown Schedule (02:00 – 03:30) • Participants build a project timeline for a mock shutdown

Day 3: Contractor, Risk, and Safety Management

- Module 1: Contractor Management (07:30 – 09:30) • Selection, onboarding, and alignment of third parties • KPIs and expectations setting
- Module 2: Risk Assessment and Mitigation (09:45 – 11:15) • HAZOPs, job safety analysis, and task-specific risk registers • Managing shutdown-specific risks
- Module 3: Safety Systems and Permitting (11:30 – 01:00) • Permit-to-work, lockout/tagout, confined space entry • Incident management protocols
- Module 4: Workshop – Risk Assessment Exercise (02:00 – 03:30) • Team-based risk review of high-impact shutdown tasks

Day 4: Execution and Monitoring

- Module 1: Shutdown Execution Strategy (07:30 – 09:30) • Execution phase checklist and controls • Managing daily progress and shift handovers
- Module 2: Quality and Inspection Integration (09:45 – 11:15) • Linking maintenance work with QA/QC inspections • Punch listing and hold points
- Module 3: Real-Time Shutdown Tracking (11:30 – 01:00) • Use of dashboards, visual boards, and communication tools • Managing scope creep and delays
- Module 4: Workshop – Daily Execution Reporting (02:00 – 03:30) • Building a daily shutdown status template

Day 5: Start-up, Closeout and Lessons Learned

- Module 1: Start-up Planning and Commissioning (07:30 – 09:30) • Pre-startup safety review and checklists • Operational sequencing and startup windows
- Module 2: System Handover and Documentation (09:45 – 11:15) • Mechanical completion, punch list clearance • Technical handover and documentation
- Module 3: Performance Review and Lessons Learned (11:30 – 01:00) • Post-mortem reviews, KPIs, and continuous improvement • Building a lessons-learned database
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Module 4: Final Exercise & Course Wrap-Up (02:00 – 03:30) • Team presentations on shutdown planning and execution scenarios

Certification

Participants will receive a Certificate of Completion in Plant Shutdown & Start-Up, validating their capability to plan, execute, and evaluate shutdowns and start-ups with safety, efficiency, and strategic alignment.

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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