

ADVANCED COMMISSIONING, START-UP, AND SHUTDOWN MASTERY

"Master the Complexities of Commissioning, Start-Up, and Shutdown for Efficient and Safe Operations"

Schedule

Date	Venue	Fees (Face-to-Face)
22 - 26 Jun 2026	London, UK	USD 3495 per delegate

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

Introduction

In the world of industrial operations, commissioning, start-up, and shutdown phases are critical to ensuring that facilities run smoothly, safely, and efficiently. This course is designed to provide participants with the expertise required to manage these processes at the highest level, addressing both technical and operational aspects. Focusing on advanced methodologies and techniques, this training will delve into strategies that minimize downtime, optimize resource utilization, and maintain safety standards during these high-stakes phases.

Participants will also learn how to handle unexpected challenges and how to ensure that start-up and shutdown processes are conducted without disruption, ensuring that plants and facilities are fully operational when needed. The course will cover best practices, safety regulations, and effective coordination between different teams involved in commissioning and shutdown operations.

Objectives

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

- Develop and implement advanced commissioning, start-up, and shutdown plans
- Minimize risks and downtime during the start-up and shutdown processes
- Ensure compliance with safety standards and industry regulations
- Manage and coordinate teams effectively during critical operational phases
- Troubleshoot and resolve issues quickly during the commissioning and start-up phases

Why Attend

- Gain expert knowledge on managing commissioning, start-up, and shutdown processes in complex systems
- Learn advanced techniques for minimizing operational disruptions during critical phases
- Improve the efficiency and safety of commissioning and start-up activities
- Enhance your skills in project planning, risk management, and team coordination
- Network with industry professionals and learn best practices from seasoned experts

Target Audience

This program is designed for:

- Engineers and technicians responsible for the commissioning, start-up, and shutdown of industrial operations
- Maintenance and reliability professionals seeking to deepen their expertise in commissioning and shutdown processes
- Project managers and coordinators overseeing commissioning and shutdown projects
- Operational and safety managers involved in the start-up and shutdown phases of projects
- Professionals in the oil, gas, power, and manufacturing industries

Individual Benefits

Key competencies that will be developed include:

- Expertise in advanced commissioning and start-up techniques
- Ability to develop comprehensive shutdown plans and strategies
- Proficiency in safety and regulatory compliance during critical operational phases
- Skills to lead and coordinate cross-functional teams during commissioning and shutdown
- Capability to troubleshoot and resolve operational issues promptly

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved efficiency and reduced downtime during commissioning, start-up, and shutdown processes
- Enhanced ability to handle high-risk situations and mitigate operational risks
- Stronger team coordination and communication during critical project phases
- Better adherence to safety and quality standards in commissioning and shutdown operations
- Enhanced operational readiness and faster time-to-market for new projects

Instructional Methodology

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

- Strategy Briefings - Overview of advanced commissioning, start-up, and shutdown strategies
- Case Studies - Real-world examples of successful and challenging commissioning, start-up, and shutdown operations
- Workshops - Hands-on exercises on developing and implementing commissioning and shutdown plans
- Peer Exchange - Group discussions on best practices and lessons learned from past projects
- Tools - Templates and checklists for commissioning, start-up, and shutdown processes

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

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 Advanced Commissioning, Start-Up, and Shutdown

- Module 1: Overview of Commissioning, Start-Up, and Shutdown Processes – 07:30-09:30 Importance of effective commissioning, start-up, and shutdown processes Key principles and methodologies for successful project execution Understanding the phases of commissioning and shutdown
- Module 2: Planning for Success – 09:45-11:15 Developing comprehensive commissioning and shutdown plans Risk management strategies for commissioning and start-up Coordinating multiple teams and stakeholders for effective execution
- Module 3: Safety Regulations and Compliance – 11:30-01:00 Ensuring compliance with health, safety, and environmental regulations Managing safety protocols during commissioning, start-up, and shutdown Conducting safety audits and inspections
- Module 4: Workshop – Commissioning and Shutdown Planning – 02:00-03:30 Practical exercise on developing a commissioning and shutdown plan

Day 2: Advanced Commissioning Techniques

- Module 1: Commissioning Critical Systems – 07:30-09:30 Detailed commissioning of mechanical, electrical, and instrumentation systems Understanding the integration of various system components Managing commissioning schedules and budgets
- Module 2: Start-Up Best Practices – 09:45-11:15 Steps for successful system start-up Troubleshooting common start-up issues Coordination between operations and commissioning teams
- Module 3: Managing Unexpected Issues – 11:30-01:00 Strategies for dealing with unanticipated problems during start-up Problem-solving techniques for complex system issues Real-life case studies of commissioning challenges
- Module 4: Workshop – Simulated Start-Up and Troubleshooting – 02:00-03:30 Hands-on exercises in managing start-up challenges

Day 3: Shutdown Management Strategies

- Module 1: Developing Effective Shutdown Plans – 07:30-09:30 Key considerations for shutdown planning and preparation Identifying critical systems and safety checks during shutdown Managing resources and timelines for shutdown execution
- Module 2: Coordinating Shutdown Teams – 09:45-11:15 Organizing and leading shutdown teams for efficiency Managing communication and roles during shutdown operations Ensuring alignment between various departments involved
- Module 3: Safety and Compliance During Shutdown – 11:30-01:00 Implementing safety protocols during shutdown activities Conducting safety checks and audits throughout the shutdown process Understanding environmental considerations during shutdowns

Module 4: Workshop – Shutdown Planning and Coordination – 02:00-03:30 ● Practical exercise on planning and coordinating a shutdown event

Day 4: Optimization and Efficiency in Commissioning and Shutdown

- Module 1: Minimizing Downtime During Start-Up and Shutdown – 07:30-09:30 Techniques for reducing downtime and increasing operational efficiency Optimizing resource utilization during commissioning and shutdown Streamlining workflows and processes for faster execution
- Module 2: Handling Delays and Delays Mitigation – 09:45-11:15 Managing delays and overcoming bottlenecks in the commissioning and shutdown process Strategies to keep projects on track and within budget Case studies of effective delay mitigation
- Module 3: Post-Shutdown Activities – 11:30-01:00 Post-shutdown inspections and audits Documentation and reporting after commissioning and shutdown Evaluating project success and identifying areas for improvement
- Module 4: Workshop – Optimizing Commissioning and Shutdown Processes – 02:00-03:30 Hands-on exercise on optimizing processes during commissioning and shutdown

Day 5: Review, Certification, and Networking

- Module 1: Review of Key Concepts – 07:30-09:30 Key takeaways from the course How to apply advanced commissioning and shutdown techniques in your projects Final Q&A session
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Module 2: Certification Ceremony – 09:45–11:15 Distribution of course completion certificates Closing remarks

- Module 3: Networking and Next Steps – 11:30–01:00 Networking session with peers and experts Exploring future career and development opportunities

Certification

Participants will receive a Certificate of Completion in Advanced Commissioning, Start-Up, and Shutdown Mastery, validating their expertise in managing and executing complex commissioning, start-up, and shutdown operations with minimal downtime and maximum safety.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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