

ADVANCED SHUTDOWN & TURNAROUND

“Optimizing Industrial Shutdowns and Turnarounds for Safety, Efficiency, and Reliability”

Schedule

Date	Venue	Fees (Face-to-Face)
20 - 24 Jul 2026	Dubai - UAE	USD 3495 per delegate

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

Introduction

Shutdowns and turnarounds are critical events in industrial operations, requiring meticulous planning, execution, and control to minimize downtime and ensure safety. Poorly managed shutdowns can lead to costly delays, safety incidents, and production losses. Effective shutdown management enhances operational reliability, reduces costs, and ensures compliance with safety and quality standards.

This intensive 5-day program equips participants with advanced knowledge, tools, and techniques for planning, scheduling, and executing industrial shutdowns and turnarounds. Participants will learn best practices, risk management strategies, and real-world methodologies to optimize performance while maintaining safety and operational integrity.

Objectives

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

- Develop detailed shutdown and turnaround strategies
- Plan, schedule, and coordinate shutdown activities efficiently
- Manage resources, contractors, and critical equipment during shutdowns
- Implement safety, quality, and environmental controls
- Optimize turnaround duration, cost, and workforce utilization
- Monitor performance and resolve operational challenges during shutdowns
- Apply lessons learned for continuous improvement in turnaround management

Why Attend

- Gain practical expertise in planning and managing industrial shutdowns
- Learn risk mitigation and safety management techniques
- Improve coordination among internal teams and contractors
- Enhance cost, schedule, and resource control
- Increase operational reliability and compliance
- Learn industry best practices from experienced instructors

Target Audience

This program is designed for:

- Maintenance, reliability, and operations managers
- Shutdown and turnaround planners
- Project engineers and site supervisors
- Maintenance supervisors and coordinators
- Plant managers and engineers responsible for industrial operations

Individual Benefits

Key competencies that will be developed include:

- Mastery of shutdown and turnaround planning principles
- Skills in scheduling, resource allocation, and risk management
- Enhanced problem-solving during complex turnaround operations
- Ability to manage contractors and ensure safety compliance
- Practical knowledge of performance monitoring and reporting

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced turnaround duration and operational downtime
- Improved safety and compliance during shutdowns
- Optimized cost and resource utilization
- Increased reliability and availability of critical equipment
- Enhanced coordination between teams and contractors
- Better implementation of continuous improvement initiatives

Instructional Methodology

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

- Strategy Briefings – Shutdown planning, scheduling, and best practices
- Case Studies – Real-world industrial shutdown and turnaround scenarios
- Workshops – Hands-on exercises in planning, scheduling, and resource allocation
- Peer Exchange – Group discussions on challenges, lessons learned, and solutions
- Tools – Templates for shutdown schedules, risk registers, and progress monitoring

MAWA EVENTS

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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 & Turnaround Management

Module 1: Fundamentals of Industrial Shutdowns (07:30 – 09:30)

- Definition, types, and objectives of shutdowns and turnarounds
- Critical success factors
- Key roles and responsibilities

Module 2: Planning and Preparation (09:45 – 11:15)

- Scope definition and work breakdown structure
- Risk assessment and mitigation planning
- Resource and contractor identification

Module 3: Scheduling and Coordination (11:30 – 01:00)

- Scheduling techniques and software tools
- Task sequencing and critical path analysis
- Coordination with operations and maintenance teams

Module 4: Workshop – Planning Exercise (02:00 – 03:30)

- Creating a preliminary shutdown plan
- Identifying risks, dependencies, and resource requirements

Day 2: Safety, Quality, and Resource Management

Module 5: Safety and Environmental Management (07:30 – 09:30)

- Safety planning for shutdowns
- Permit-to-work and isolation procedures
- Environmental and regulatory compliance

Module 6: Resource Allocation and Contractor Management (09:45 – 11:15)

- Workforce planning and productivity optimization
- Contractor selection and supervision
- Equipment and material management

Module 7: Quality Assurance and Inspection (11:30 – 01:00)

- Inspection and testing procedures
- Quality control plans
- Documentation and reporting

Module 8: Workshop – Resource & Safety Planning (02:00 – 03:30)

- Practical exercises on workforce, materials, and safety planning

Day 3: Execution and Monitoring

Module 8: Execution of Shutdown Activities (07:30 – 09:30)

- Task supervision and progress monitoring
- Communication and reporting structures
- Handling unplanned events

Module 9: Performance Measurement (09:45 – 11:15)

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Key performance indicators (KPIs)

- Monitoring schedule, cost, and quality metrics
- Variance analysis and corrective actions

Module 10: Problem Solving & Troubleshooting (11:30 – 01:00)

- Identifying bottlenecks and delays
- Root cause analysis techniques
- Effective decision-making during execution

Module 11: Workshop – Execution Simulation (02:00 – 03:30)

- Simulated execution of shutdown plan
- Monitoring performance and applying corrective actions

Day 4: Optimization and Continuous Improvement

Module 12: Turnaround Optimization Techniques (07:30 – 09:30)

- Lean principles applied to shutdowns
- Reducing downtime and non-value-added activities
- Best practices for efficiency improvement

Module 13: Risk and Change Management (09:45 – 11:15)

- Risk tracking during execution
- Handling scope changes and deviations
- Contingency planning

Module 14: Workshop – Optimization Exercise (11:30 – 01:00)

- Identifying improvement opportunities
- Implementing optimization strategies

Module 15: Lessons Learned and Knowledge Transfer (02:00 – 03:30)

- Documenting lessons learned
- Knowledge sharing for future shutdowns
- Continuous improvement planning

Day 5: Review, Case Studies, and Implementation

Module 16: Case Studies of Successful Turnarounds (07:30 – 09:30)

- Analysis of industrial shutdowns and outcomes
- Common pitfalls and success factors

Module 17: Practical Implementation Roadmap (09:45 – 11:15)

- Developing actionable shutdown plans
- Aligning with organizational objectives
- Stakeholder engagement strategies

Module 18: Final Workshop & Simulation (11:30 – 01:00)

- Complete end-to-end shutdown simulation
- Team exercises in planning, execution, and monitoring

Module 19: Q&A and Action Planning (02:00 – 03:30)

- Address participant queries
- Individual action plans for applying learnings in the workplace

Certification

Participants will receive a Certificate of Completion in Advanced Shutdown & Turnaround, validating their expertise in planning, executing, and optimizing industrial shutdowns and turnarounds with emphasis on safety, efficiency, and reliability.

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