

ADVANCED TURNAROUND PLANNING & COST OPTIMIZATION

"Delivering Safe, On-Time, and Cost-Effective Shutdowns, Turnarounds & Outages"

Schedule

Date	Venue	Fees (Face-to-Face)
15 - 17 Sep 2026	Doha, Qatar	USD 2,495 per delegate

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

Introduction

Turnarounds, shutdowns, and outages (TSOs) represent some of the most complex, high-risk, and capital-intensive events in asset-intensive industries. Poor planning, inadequate scope control, and ineffective cost management often result in schedule overruns, budget escalation, safety incidents, and lost production opportunities.

This advanced 3-day training equips participants with proven methodologies, tools, and best practices for effective turnaround planning, execution control, and cost optimization. Participants will learn how to develop realistic schedules, manage risks, optimize resources, control costs, and ensure successful turnaround delivery while maintaining safety and operational excellence.

Objectives

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

- Understand the full turnaround lifecycle and governance structure
- Develop effective turnaround strategies and execution plans
- Apply best practices in scope definition and work packaging
- Optimize turnaround schedules, manpower, and resources
- Implement cost control and cost optimization techniques
- Identify and mitigate turnaround risks
- Improve turnaround performance, predictability, and outcomes

Why Attend

- Reduce turnaround cost overruns and schedule delays
- Improve planning accuracy and execution discipline
- Enhance coordination between maintenance, operations, and contractors
- Strengthen risk management and decision-making
- Learn proven turnaround best practices from real-world cases
- Improve safety, productivity, and asset availability

Target Audience

This program is designed for:

- Turnaround and shutdown managers
- Maintenance and reliability engineers
- Planning and scheduling engineers
- Project and operations managers
- Asset and plant managers
- Cost control and planning professionals

Individual Benefits

Key competencies that will be developed include:

- Advanced turnaround planning and control skills
- Stronger cost optimization and budget management capabilities
- Improved scheduling and work prioritization techniques
- Enhanced risk identification and mitigation skills
- Greater confidence in managing complex TSOs

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced turnaround duration and cost escalation
- Improved schedule compliance and work execution efficiency
- Enhanced safety performance during shutdowns
- Better contractor and resource management
- Increased asset availability and operational readiness

Instructional Methodology

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

- Strategy Briefings - Turnaround lifecycle, governance, and best practices
- Case Studies - Successful and failed turnaround projects
- Workshops - Practical planning, scheduling, and cost exercises
- Peer Exchange - Group discussions on turnaround challenges
- Tools - Templates for scope control, scheduling, risk registers, and cost tracking

Course Outline

Detailed 3-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: Turnaround Strategy & Planning Excellence

Module 1: Turnaround Fundamentals & Lifecycle (07:30 – 09:30)

- Types of turnarounds, shutdowns, and outages
- Turnaround governance, roles, and responsibilities
- Success factors and common failure causes

Module 2: Scope Definition & Work Packaging (09:45 – 11:15)

- Scope freeze principles
- Work identification and prioritization
- Preventing scope creep

Module 3: Planning, Scheduling & Resource Optimization (11:30 – 01:00)

- Critical path and schedule development
- Resource leveling and manpower planning

Day 2: Execution Control, Risk & Cost Management

Module 1: Risk Management & Readiness Reviews (07:30 – 09:30)

- Turnaround risk identification and mitigation
- Readiness and gate reviews

Module 2: Cost Estimation, Budgeting & Cost Control (09:45 – 11:15)

- Cost drivers in turnarounds
- Budget development and cost tracking

Module 3: Contractor & Materials Management (11:30 – 01:00)

- Contractor selection and performance control
- Materials, spares, and logistics readiness

Day 3: Optimization, Performance & Lessons Learned

Module 1: Productivity & Cost Optimization Strategies (07:30 – 09:30)

- Improving labor productivity
- Reducing waste and inefficiencies

Module 2: Execution Monitoring & Performance KPIs (09:45 – 11:15)

- Schedule adherence and progress tracking
- Safety and cost performance indicators

Module 3: Post-Turnaround Review & Continuous Improvement (11:30 – 01:00)

- Lessons learned and knowledge capture
- Improving future turnaround performance

Certification

Participants will receive a Certificate of Completion in Advanced Turnaround Planning & Cost Optimization, validating their capability to plan, manage, and optimize shutdowns, turnarounds, and outages while ensuring safety, cost efficiency, and operational excellence.

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