BLACKBIRD FOR TRAINING

# Shutdown, Turnaround & Maintenance Cost Optimization

1 – 5 November 2027
Kuala Lumpur (Malaysia)

UK Traininig
PARTNER



# Shutdown, Turnaround & Maintenance Cost Optimization

**Ref:** 3255999_214736 **Date:** 1 – 5 November 2027 **Location:** Kuala Lumpur (Malaysia) **Fees:** 4900 GBP

## Introduction

This advanced one-week course provides a practical and managerial approach to planning, executing, and controlling major shutdowns and turnarounds. It focuses on **scope optimization, work-pack readiness, scheduling, contractor productivity, cost control, risk management, quality, startup readiness, and continuous improvement**.

## Course Objectives

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

- Develop effective turnaround strategies and objectives.
- Challenge, optimize, prioritize, and control turnaround scope.
- Develop work packages and assess execution readiness.
- Build and control integrated turnaround schedules.
- Apply Critical Path Method CPM and manage critical activities.
- Optimize manpower, materials, equipment, and contractors.
- Manage contractor productivity and performance.
- Identify and mitigate turnaround risks.
- Establish budgets, track costs, and forecast final expenditure.
- Apply quality assurance and control during execution.
- Manage startup, commissioning, handover, and return-to-service readiness.
- Measure performance, benchmark results, capture lessons learned, and drive improvement.

## Course Outline - 1 Week

### Day 1 - Turnaround Strategy & Scope Optimization

- Turnaround strategy and lifecycle
- Objectives and success criteria
- Scope identification, challenge, validation, and prioritization
- Scope optimization and value-based decisions
- Scope freeze and change control
- Governance and responsibilities

### Day 2 - Planning, Work-Packs, Scheduling & Resources



- Integrated turnaround planning
- WBS and work-pack development
- Work-pack readiness assessment
- Activity sequencing and duration estimation
- CPM and critical-path management
- Schedule constraints and milestones
- Manpower, materials, equipment, and contractor planning
- Execution readiness

**Day 3 - Execution, Risk, Contractors & Quality**

- Execution control and progress monitoring
- Contractor productivity and performance
- Risk assessment and mitigation
- Permit-to-work and SIMOPS
- Schedule deviation and recovery planning
- Quality assurance and quality control
- Inspection, punch lists, and rework management

**Day 4 - Cost Optimization & Forecasting**

- Turnaround cost structures and budgeting
- Cost estimation and baseline development
- Cost tracking and reporting
- Cost forecasting and Estimate at Completion EAC
- Scope growth and change-order control
- Contractor and procurement cost optimization
- Productivity and cost efficiency

**Day 5 - Startup, Performance & Continuous Improvement**

- Startup and commissioning readiness
- Mechanical completion and handover
- Punch-list closure and return-to-service readiness
- KPI and performance measurement
- Cost, schedule, productivity, and quality performance
- Downtime and production-loss measurement
- Lessons learned and Root Cause Analysis
- Turnaround benchmarking and improvement roadmap

**Why Attend This Course?**

**Wins**



- Optimized turnaround scope
- Better work-pack readiness
- Improved critical-path and schedule control
- Higher contractor productivity
- Stronger cost forecasting and control
- Improved quality and risk management
- Faster startup and reduced downtime
- Effective benchmarking and continuous improvement

**Potential Losses Without These Capabilities**

- Scope creep and unnecessary expenditure
- Schedule and critical-path delays
- Contractor productivity problems
- Cost overruns
- Quality failures and rework
- Delayed startup
- Increased production losses
- Repeated turnaround problems

**Conclusion**

This course equips managers and turnaround professionals with the tools to **plan, optimize, execute, control, and improve major shutdowns and turnarounds**, balancing **time, cost, quality, reliability, risk, and operational performance**.

**FAQ**

**Who should attend?**

Maintenance Managers, Turnaround Managers, Shutdown Managers, Asset Managers, Maintenance Engineers, Planners, Planning Managers, and related professionals.

**Is it an advanced course?**

Yes. It is designed for experienced professionals and managers.

**What is the duration?**

**1 week, 4 hours per day — 20 training hours.**

**Does it cover all key turnaround requirements?**



Yes. It covers **strategy, scope optimization, work-pack readiness, scheduling, critical-path management, contractor productivity, cost forecasting, risk, quality, startup readiness, lessons learned, and benchmarking.**

