



Consulting and Training | Reach New Heights

**Course Name**

# Managing Shutdowns, Turnarounds and Outages

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**Sector Name**

Maintenance & Reliability Management

**Document Type**

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## Managing Shutdowns, Turnarounds and Outages

### Course Introduction

Corporate ethos, which sees change as a survival necessity, coupled with continual demands to achieve greater production efficiencies and reduced operating/maintenance costs, means that Engineers and Technologists are faced with ever-increasing plant and process performance targets. As a consequence, more and more reliance is being placed upon the accurate and reliable analysis, representation, and interpretation of data. This course aims to provide engineers and technologists with the understanding and practical capabilities needed to convert data into information, and then to represent this information in ways that it can be readily exploited. A Working vocabulary of analytical terms that will enable you to converse with people who are experts in the areas of data analysis, statistics, and probability, and to be able to read and comprehend common textbooks and journal articles in this field.

An understanding and practical experience of a range of the more common analytical techniques and data representation methods, which have direct relevance to a wide range of engineering problems. The ability to recognize which types of analysis are best suited to particular types of problems. A sufficient background and theoretical knowledge to be able to judge when an applied technique will likely lead to incorrect conclusions. Planning and managing shutdowns, turnarounds, and outages in the process plant environment is a complex and demanding function. If turnarounds are not properly planned, managed, and controlled, companies run

the risk of serious budget overruns, costly schedule delays, and negative impacts on customers.

This **BOOST** training course includes the core techniques of quality planning, critical path scheduling, resource optimisation, and the earned value method of progress and cost control. Applying these techniques in an integrated manner together with work breakdown structures, milestone planning, and contractor management will produce the outcomes that the organisation needs to ensure the sustains its business going forward.

### **In this Managing Shutdowns, Turnarounds and Outages (STO) training course, you will learn about:**

- ✓ The overall shutdown management process
- ✓ How to develop the scope of work and control for late work
- ✓ Planning with quality in mind
- ✓ The critical path method of planning and control
- ✓ Contracting STO work and dealing with contractors
- ✓ Controlling progress
- ✓ Controlling risks, hazards, and other STO issues in a shutdown/turnaround environment

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## Managing Shutdowns, Turnarounds and Outages

### Target Audience

- ✓ Facilities Engineer
- ✓ Facilities Engineering Manager
- ✓ Facilities Manager
- ✓ Facilities Specialist / Coordinator
- ✓ Health and Safety Engineer
- ✓ Maintenance Group Leader
- ✓ Maintenance Helper / Assistant
- ✓ Maintenance Manager
- ✓ Maintenance Superintendent
- ✓ Maintenance Supervisor
- ✓ Mechanical Reliability Engineer
- ✓ Network Reliability Engineer
- ✓ Operations and Maintenance Specialist
- ✓ Reliability Engineer

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### Learning Objectives

- ✓ To enhance the company's turnaround management capabilities, and to ensure a team approach in the planning and execution of plant shutdowns and turnarounds
- ✓ Provide a comprehensive understanding of effective turnaround management techniques and implementation
- ✓ Create awareness of planning methods and an integrated organisational approach in the execution of successful turnarounds
- ✓ Incorporate the latest developments in turnaround planning and management techniques and emerging industry trends
- ✓ Develop an action plan to improve their own turnaround management techniques
- ✓ Have a much clearer understanding of their own and every other team member's role in ensuring a successful turnaround

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## Managing Shutdowns, Turnarounds and Outages

### Course Outline

#### ✓ 01 DAY ONE

##### **Module (01): Introduction to Shutdowns, Turnarounds, and Outages**

- ✓ Introduction and overview of the phases
- ✓ The impact of STOs on business performance and costs
- ✓ The team, roles, and responsibilities matrix
- ✓ The STO steering committee and other essential roles
- ✓ Risk management

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#### ✓ 02 DAY TWO

##### **Module (02): Planning and Preparation**

- ✓ Define and justify the need
- ✓ Identify the sources and types of work
- ✓ Define and develop the scope of work
- ✓ Work planning for efficiency
- ✓ Work quality planning for effectiveness
- ✓ Work estimating for scheduling and budgeting

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#### ✓ **03 DAY THREE**

##### **Module (03): Scheduling and Resourcing**

- ✓ Work breakdown structures
- ✓ Introduction to scheduling
- ✓ Critical path scheduling
- ✓ Resource scheduling and optimisation
- ✓ Schedule and resource optimisation practical
- ✓ Work packaging

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#### ✓ **04 DAY FOUR**

##### **Module (04): Execution and Control**

- ✓ Cost budget and control
- ✓ Health, safety, and environmental control
- ✓ Work quality control
- ✓ Execution control
- ✓ Progress tracking and schedule control

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#### ✓ 05 DAY FIVE

##### **Module (05): Commissioning, Close-out, and Review**

- ✓ S-curves, earned value, and performance indicators
- ✓ Contract and contractor management
- ✓ Commissioning and start-up
- ✓ Close-out reporting and review

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## Managing Shutdowns, Turnarounds and Outages

### Confirmed Sessions

| FROM           | TO             | DURATION | FEES       | LOCATION        |
|----------------|----------------|----------|------------|-----------------|
| Dec. 14, 2026  | Dec. 18, 2026  | 5 days   | 4250.00 \$ | UAE , Abu Dhabi |
| Feb. 1, 2027   | Feb. 5, 2027   | 5 days   | 4950.00 \$ | Spain , Madrid  |
| Sept. 21, 2026 | Sept. 25, 2026 | 5 days   | 4250.00 \$ | UAE , Dubai     |
| May 24, 2027   | May 28, 2027   | 5 days   | 4250.00 \$ | UAE , Dubai     |

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