



Maintenance & Reliability Management

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 which 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 sustain 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

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

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 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 members role in ensuring a successful turnaround

Course Outline

• 01 DAY ONE

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

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

• 02 DAY TWO

Module (02): Planning and Preparation

- 2.1 Define and justify the need
- 2.2 Identify the sources and types of work
- 2.3 Define and develop the scope of work
- 2.4 Work planning for efficiency
- 2.5 Work quality planning for effectiveness
- 2.6 Work estimating for scheduling and budgeting

• 03 DAY THREE

Module (03): Scheduling and Resourcing

- 3.1 Work breakdown structures
- 3.2 Introduction to scheduling
- 3.3 Critical path scheduling
- 3.4 Resource scheduling and optimisation
- 3.5 Schedule and resource optimisation practical
- 3.6 Work packaging

• 04 DAY FOUR

Module (04): Execution and Control

- 4.1 Cost budget and control

- 4.2 Health, safety and environmental control
- 4.3 Work quality control
- 4.4 Execution control
- 4.5 Progress tracking and schedule control

• **05 DAY FIVE**

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

- 5.1 S-curves, earned value and performance indicators
- 5.2 Contract and contractor management
- 5.3 Commissioning and start-up
- 5.4 Close-out reporting and review

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 5, 2025	May 9, 2025	5 days	4250.00 \$	UAE - Dubai
Sept. 29, 2025	Oct. 3, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 8, 2025	Dec. 12, 2025	5 days	4250.00 \$	UAE - Abu Dhabi