

# Handling Effective Turnarounds & Shutdowns

## Changing a Strategy into an Act

### Introduction

In the context of a process plant, organizing and supervising shutdowns, turnarounds, and outages is a difficult task. These are high-risk events because they involve a lot of activity in a short amount of time, ambiguity about the nature of the task, and other unpredictable circumstances. Therefore, it should come as no surprise that an increasing number of businesses are evaluating and improving their turnaround and shutdown procedures.

The expenditures associated with shutdowns and turnarounds might account for as much as 30% of yearly maintenance budgets; moreover, a delay in startup can result in operational profit losses greater than the shutdown/turnaround expenses. It takes a large number of individuals to be redirected and the hiring of outside resources to plan and carry out a turnaround event. Because they can result in significant production losses, a well-thought-out plan can lower expenses. Reducing the length of the outage can significantly lower the price of output lost. Reducing the amount of time that facilities are out of commission may be achieved by increasing the resources available to manage the planning, scheduling, execution, and assistance with facility startup.

### **The following will be covered in this Course N Carry training session on Handling Effective Turnarounds & Shutdowns:**

- A comprehensive strategy for turnaround and shutdown planning
- The steps, phases, and stages involved in organizing and carrying out a shutdown
- The components and results of every stage in the turnaround process
- How to recognize risks to quality, money, and schedule and create methods to mitigate them
- How to organize and carry out the start-up, close-out, and gathering of the lessons discovered

### Objectives

**Following this training session on managing effective shutdowns and turnarounds, participants will be able to:**

- Bolster the organization's capacity for turnaround management,
- Utilize a collaborative approach while organizing and carrying out turnarounds.
- Acquire a greater comprehension of the whole process's stages, phases, milestones, and results.
- Use enhanced and more comprehensive techniques to successfully plan and carry out turnarounds.
- Use cutting-edge, tested turnaround planning and management strategies.
- Create a plan of action to enhance their turnaround management strategies.

Gain a deeper comprehension of their function within the process and that of other team members.

## Training Methodology

Class discussions and exciting instructor-led topic topics make up this Course N Carry training course. You will be able to hear about and learn about the best-in-class uses of turnaround and shutdown planning and execution strategies through interactive talks. The training program culminates with a team-based case study that puts theory into practice.

## Organizational impacts

**This Handling Effective Turnarounds & Shutdowns training course will help the company by:**

- Employee motivation has increased as a result of their increased self-assurance in their ability to organize and oversee shutdowns and turnarounds.
- Less rework and higher-quality shutdown work
- Shorter shutdown times as a result of removing pointless tasks and using appropriate scheduling
- Lower expenses as a result of better resource usage and a levelling of resource demand
- Reduced delays in logistics as a result of better preparation and communication
- Reduced risk as a result of systematic risk handling

## Personal Impact

**This managing shutdowns and turnarounds training course will help the participant by:**

- An increased understanding of how important preparation is to the shutdown process Having the assurance to confidently assess, gather, and convey the preliminary scope and estimates
- A deeper comprehension of how the shutdown/turnaround must complement the organization's present goals and make appropriate plans
- Being able to identify flaws in the way that planning and scheduling are done now and being able to actively work toward change
- Gaining greater understanding of all facets of shutdown and turnaround management and as a result become a more valuable team member
- Enhanced self-worth, assurance, and a new perspective as a result of receiving high-quality training and having the chance to network with individuals from different companies that deal with similar challenges

## Who should attend?

The people in the company who take part in the turnaround as well as those who provide assistance or are stakeholders in the turnaround would surely find great value and interest in the Handling Effective Turnarounds & Shutdowns training course.

- Coordinators and Professionals for Shutdown or Turnaround
- Planning / Scheduling and Cost Control Staff
- Supervisors and superintendents in construction
- Coordinators for Operations Shutdown and Outages
- Contract administrators and project engineers
- It is also suggested for inspection, materials, safety, and maintenance engineering to participate.

## Course Outline

### Day 1

#### An Overview of Turnarounds, Shutdowns, and Outages (STO)

- How STOs may benefit the company
- Essential elements for success
- STO strategy's effect on return on investment
- Rationale for the extent and timeliness
- Overview of the STO life cycle stages
- Risk management for STOs

## Day 2

### Advance Planning and Getting Ready for Success

- Stakeholders' roles in communications
- Roles and duties, organization
- Critical success elements for preparation
- Programmatic selection and identification of the job scope
- Identification of the scope and prioritization of corrective work
- Risk-based work scope

## Day 3

### Organizing for Efficiency, Quality, and Safety

- The important results of planning
- The Five M's of outstanding work
- Work survey and analysis
- Estimating
- Risks and emergency preparation
- Using planning libraries
- Work breakdown structure

## Day 4

### Planning for Timely Implementation and Finalization

- Concepts, terminology, and standards scheduling
- Techniques to balance scheduling and resource allocation
- Budgeting according to scope
- Taking care of contracts and contractors

## Day 5

### Maintaining Control Over Time, Money, and Quality

- Work packages and logistics

- Control of execution and timetable
- Checkpoints for execution
- Starting up and commissioning
- Administrative wrap-up, analysis, and takeaways