

Starting up and commissioning API RP 1FSC Foundation

Selecting and Evaluating the Proper Process Plant Commissioning Technique

Introduction

This training course on Course N Carry Starting up and commissioning API RP 1FSC Foundation will teach you how to succeed during a project's defining phase.

Did you know that the Commissioning & Start-Up (CSU) phase is when an investor determines whether the project is a success or a failure?

It is probable that a project will be financially successful once it has been completely commissioned and started up, with investors earning their anticipated returns.

In the odd event that a project is not fully commissioned and started up, it is unlikely to ever be financially successful. The project is a complete bust from the standpoint of an investor.

Why is this something that more individuals with years of project experience don't already know?

It might be because there hasn't been, and for many Operators and Contractors, still isn't, the instruction and training needed to develop the necessary abilities and expertise.

This Course N Carry training programme addresses vitally significant queries and will emphasise:

- Commissioning: What Is It?
- Systems Completion: What Is It?
- When and how should Areas and Systems be replaced in Construction?
- As a member of the Commissioning & Start-Up (CSU) team or stakeholder, how should I conduct myself?
- What are the signs of a successful or unsuccessful project?
- What are the Commissioning & Start-Up Critical Success Factors?

Objectives

Following completion of this Course N Carry training course, you will be able to:

- Ensure that every project has a successful Commissioning & Start-Up (CSU).
- Justify the Commissioning & Start-Up (CSU) budget.
- Utilise the systemization process and create a priority system start-up sequence.
- Conduct a gap analysis and understand how to use the findings
- Arrange and carry out expert off-site pre-commissioning
- Convince important parties, such as construction, to proceed with the Commissioning & Start-Up (CSU) process.
- The general goal of the course is for participants to get an understanding of systems completion and key tactics for safely and on-time commissioning and start-up of projects, anchored in the principles of API Recommended Practice, 1 FSC 1st Edition.

Training Methodology

To improve students' learning results, training is given in a classroom environment. Students are encouraged to reflect and provide feedback in order to promote ongoing learning and development. The programme emphasises experiential and problem-based learning using interactive approaches.

Organizational impacts

The only people who truly understand commissioning and start-up are practitioners; yet, proper execution of these tasks is crucial to the project's success. This course offers unique training that will give your staff members the necessary tools to support the Commissioning & Start-Up (CSU) process as knowledgeable stakeholders or to actively participate in it as participants.

Personal Impact

Following completion of this Course N Carry training course, you will be able to:

- Using the crucial success elements, commission and start up (CSU) of any project can be completed successfully.
- Justify the Commissioning & Start-Up (CSU) budget.
- Utilise the systemization process and create a priority system start-up sequence.
- Conduct gap analysis and be aware of how to use the findings
- Convince important parties to succeed in the Commissioning & Start-Up (CSU) process, such as Construction.

Who should attend?

A wide range of professionals can benefit from this Course N Carry training course, but the following are particularly noteworthy:

- **Managers of Commissioning**

- Engineers for Commissioning
- Superintendents who are commissioned
- Supervisors in Commissioning
- CSU Takes the Lead
- Process Managers
- Engineers for Maintenance
- QA/QC Professionals
- Engineers providing technical support
- Engineers for Safety
- Workers on the Field
- Technicians for Maintenance
- Officers of Safety
- Everyone participating in the systems completion, pre-commissioning, commissioning, startup, and hand-over processes of new plants is also strongly encouraged to take this training course.

Course Outline

Day 1

Overview of the Course and Phase 1: Preparation

- Influence Planning and Curves
- Environmental and Safety Aspects
- Creating a CSU Budget
- Analysis of Gaps

Day 2

Phase 1: Getting Ready (Progress)

- The Commissioning & Start-Up (CSU) Team and the Commissioning Manager
- Risk Evaluations
- Systemization, Start-Up Sequence, Turnover Process, and Completions Pyramid

Day 3

Phase 1: Getting Ready (Progress)

- Getting Stakeholder Agreement on Systemization and Battery Limits on P&IDs
- Getting Stakeholder Agreement: An Introduction to the System Priority Sequence for Initial

- Procedures for Dynamic Commissioning

Day 4

Phase Two: Execution

- Monitoring and Reporting Progress
- Testing for Factory Acceptance and Preservations
- Punch Listing, Certificates, Check sheets, and Tags
- Expert Subcontractors for Oil Flushing, Leak Testing, Cleaning, and Drying
- The Turnover Process and the Completions Pyramid

Day 5

Phase 3: Finalisation

- Review of Pre-Start-Up Safety (PSSR) and Change Management
- Transfer of Control to Operations
- Knowledge Acquired
- Getting Ready for the First Shutdown
- Important Components for Commissioning and Start-Up Success (CSU)