



Systems Completion, Commissioning and Start-up - CSU

COURSE

About the Course

This course will show you how to be successful in the defining phase of a project.

Did you know that from the perspective of an investor, it is the Commissioning & Start-Up (CSU) phase that defines the project as a success or failure? When a project has been fully commissioned and started-up, it is likely the project will also be a financial success, with investors receiving their expected returns. When a project has not been fully commissioned and is then started-up, it is highly unlikely the project could ever be a financial success. From an investor's perspective, the project is a disaster.

Why don't more people with many years of project experience already know this? It could be because the training and education to build essential skills and knowledge has not been there, and for many Operators and Contractors, still doesn't exist - until now.

This course answers the following crucially important questions:

- What is commissioning?
- What is systems completion?
- When and how should construction transition from areas to systems?
- How should I perform as a CSU team member or stakeholder?
- What does project success or project failure look like?
- What are the critical success factors for commissioning and start-up?

This course counts toward PMI Project Development Units (PDUs) through continuing education. Completion Certificates may be submitted to PMI as required to document third-party training.

Target Audience

This course is essential to Managers, Engineers, Technicians, Operators currently, or soon to be, involved in Systems Completion and Commissioning. This course is highly recommended to Managers, Engineers, Technicians, Operators stakeholder organizations, such as Construction, Operations, Engineering, QA/QC, Safety, supporting CSU on the project, you will gain valuable insight to your roles and other requirements imposed by this crucially important Discipline.

You Will Learn

At the end of this course, you will learn how to:

- Achieve successful CSU on any project
- Justify a budget for CSU
- Apply the Systemization process and formulate the Start-Up sequence of priority Systems
- Perform Gap Analysis and know how to use the results
- Plan and execute specialist off-site Pre-Commissioning
- Persuade major stakeholders like Construction, to be successful in the CSU process
- Attain higher standards of Process Safety in your company

The overall learning objective is for course followers to become knowledgeable in Systems Completion and familiar with vital strategies for the successful Commissioning and Start-Up of projects, on time and safely, embedded within the guidelines of API Recommended Practice, 1 FSC 1st Edition.

Course Content

Course Overview and Phase 1 - Preparation

- Influence Curves and Planning
- Safety & Environmental Considerations
- Setting a Budget for CSU
- Gap Analysis
- The Commissioning Manager & Commissioning & Start-Up (CSU) Team
- Risk Assessments
- Systemization, Completions Pyramid, Start-Up Sequence, Turnover Process
- Introduction to Systemization, battery limits on P&IDs - Getting Stakeholder Agreement
- Introduction to System Priority Sequence for Initial Start-Up - Getting Stakeholder Agreement
- Dynamic Commissioning Procedures

Phase 2 - Implementation

- Progress Tracking & Reporting
- Factory Acceptance Testing and Preservations
- Tags, Checksheets, Certificates and Punch Listing
- Specialist Subcontractors for Cleaning, Drying, Leak Testing and Oil Flushing
- Completions Pyramid and Turnover Process

Phase 3 - Close out

- Pre-Start-Up Safety Review (PSSR) and Management of Change
- Handover to Operations
- Lessons Learned
- Planning for First Shutdown
- Critical Success Factors in Commissioning & Start-Up (CSU)

Product Details

Categories: [Upstream](#)

Disciplines: [Project Management](#)

Levels: [Intermediate](#)

Product Type: [Course](#)

Formats Available: [Virtual](#) [In-Classroom](#)

Instructors: [Alan Mills](#)

Virtual Format

22 Oct '24	31 Oct '24	-		Course		Virtual (London UTC)	\$3,115.00
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