

PROJECT MANAGEMENT



BTS
Training & Consultancy

Project Commissioning a Practical Approach

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Project Commissioning a Practical Approach

Introduction:

The Commissioning Process begins at project Pre-Design Phase and continues for the life of the facility (through the Occupancy and Operations Phase). Project commissioning is a quality-oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria. and the commissioning team will perform the needed processes and acceptance tests to achieve these requirements.

Knowing the scope of work, and the time and resources needed are not enough to reach the goals, we will work together during this course to transfer his headline into knowledge, details, schedule, and defined roles, responsibilities and boundaries. The professional commissioning of a new project is the proper starting for a smooth operation, less maintenance tasks and modifications, and a longer life cycle project.

This BTS training course will define how the Commissioning processes is selected to match the project size, complexity, and system components to ensure that design requirements are met. Commissioning processes and acceptance tests documentations are essential in properly and smoothly managing the project through its life cycle.

This BTS training course will highlight:

- Stakeholders roles and responsibilities
- Tasks to be performed
- Commissioning integrity
- Administration close-outs
- Technical close-outs including warranties

Training Objectives

By the end of this BTS training course, participants will learn to:

- Determine the needed documents before commissioning initiation
- Develop the plan and schedule to perform the commissioning tasks
- Apply the schedule
- Analyze the results and modify the schedule if needed
- Determine and deliver the close-out documents

Target Audience

This training course is a starting phase to deliver a successful project with minimum future problems, suitable to a wide range of professionals but will greatly benefit:

- Construction Engineers
- Construction Technicians
- Quality Control/Assurance Engineers
- Design Engineers
- Technical Office Engineers

Daily Agenda

Day One: Construction Phase

- Construction Phase Commissioning Objectives
- Commissioning Team
- Commissioning Agent Tasks
- Roles and Responsibilities
- Construction Phase Commissioning Kickoff Meeting
- Construction Phase Commissioning Plan
- Construction Schedule Facilitation and Integration
- Construction Phase Meetings

Day Two: Construction Phase Continued

- Commissioning Construction Observation Visits
- RFI's, Change Directives, Change Orders
- Submittal Review
- Construction Phase Controls Conference
- Pre-Functional Checklists
- Preliminary Systems Functional Performance Test Procedures

- Adapting the Construction Phase Commissioning Process

Day Three: Acceptance and Testing Phase Commissioning

- Acceptance and Testing Phase Commissioning Team
- Acceptance and Testing Phase Commissioning Tasks
- Acceptance and Testing Phase Commissioning Team Roles and Responsibilities
- Construction Meetings
- Commissioning Construction Site Visits
- Equipment/System Start Up Observation and Review
- Pre-Functional Checklist Verification
- Systems Functional Testing (Season 1)

Day Four: Acceptance and Testing Phase Commissioning (Continued)

- Operations and Maintenance Manuals
- Systems Manual
- Training Verification
- Commissioning Issues Follow Up and Resolution
- Final Commissioning Report
- Lessons Learned Review Meeting
- Adapting the Acceptance Phase Commissioning Process

Day Five: Warranty

- Warranty Phase Commissioning Team
- Warranty Phase Commissioning Tasks
- Warranty Phase Commissioning Roles and Responsibilities
- Systems Performance Monitoring
- Deferred Seasonal Testing
- Post-Occupancy Warranty Checkup
- Final Commissioning Report Addendum
- Adapting the Warranty Phase Commissioning Process