COMMISSIONING CERTIFIED TECHNICIAN CXCT REFRESHER

The acceptance phase of a project involves verifying the systems and components installed in a facility for their functionality, performance, and compliance with design specifications. The Commissioning Technician (CxT) plays a crucial role in this phase, ensuring that the systems operate as intended before the facility is handed over to the owner or end-user. The CxT's responsibilities include monitoring temperature control systems, verifying installer performance, coordinating the Test and Balance (TAB) process, executing Functional Performance Tests (FPTs), facilitating operations and maintenance (O&M) training, tracking Requests for Information (RFIs), Change Orders (COs), and Submittal Items (SIs), and maintaining jurisdiction (AHJ) inspection reports.
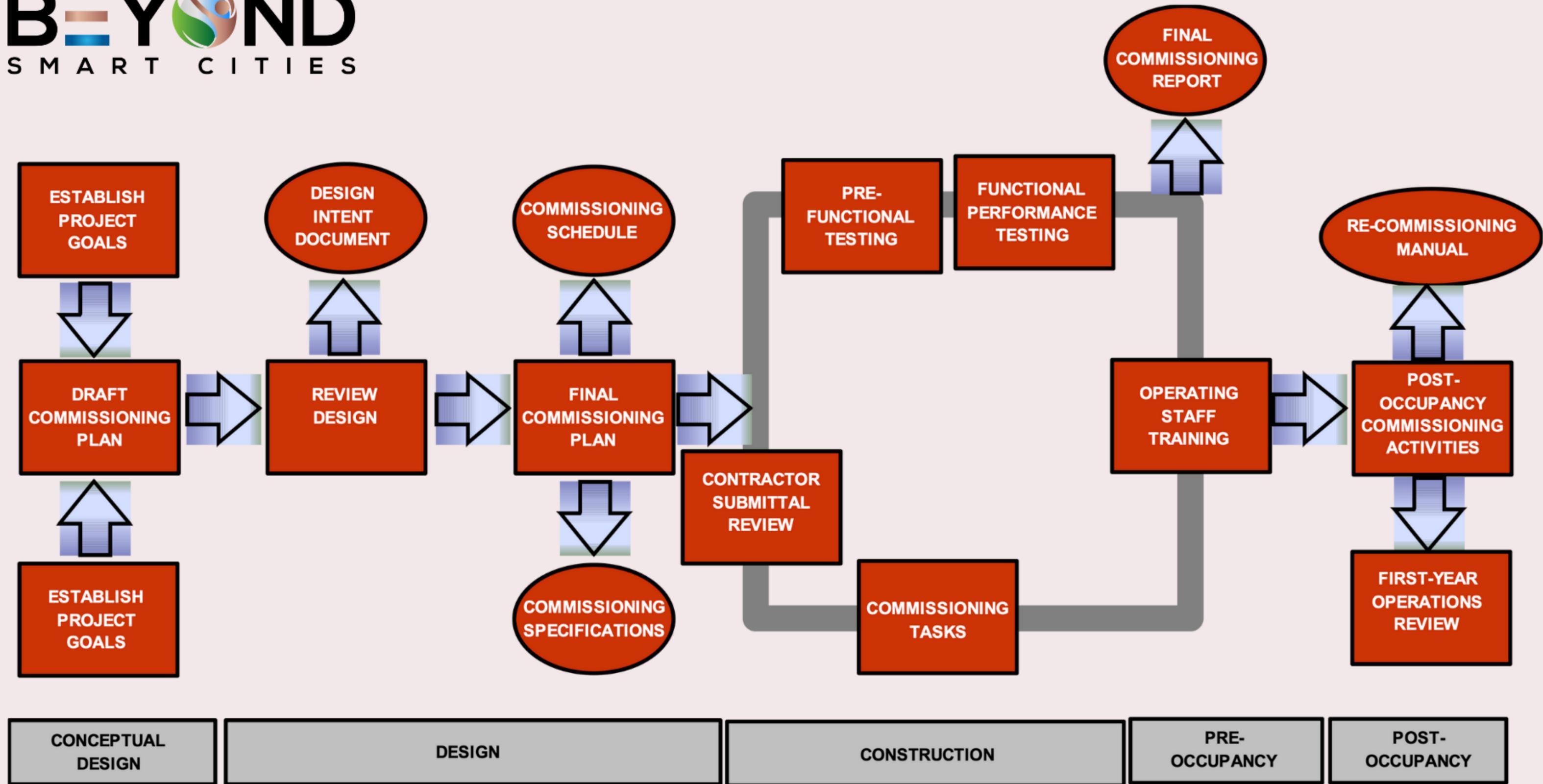
Learning Objectives

- **Course Overview and Introduction**

- **CCxT's Technical, Communication, and Commissioning Skills - Working knowledge of Procedural Standards**

- **HVAC Systems - Why is CxA of buildings necessary?**

- **Basics of field TAB , HVAC systems - Trained on jobsite safety and PPE**

- **CxT Responsibilities by Phase - Acceptance**

- **Pre-function tests include sheet checking and installation tests.**

- **Point-to-point calibrate MEP and sensor systems.**

- **Verify TAB pre-functional tests and CxT responsibilities**

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INTRODUCTION

- The Commissioning Technician (CxT) plays a crucial role in the acceptance phase of a project, ensuring systems and components operate as intended.

- Monitoring and Verification Responsibilities:

- Temperature controls and point-to-point verification: The CxT monitors temperature control systems, ensuring they function correctly according to design specifications.

- Installer Performance Verification: The CxT verifies installer performance, assessing the quality of installation work against established standards and specifications.

- Test and Balance (TAB) Coordination: The CxT assists the TAB contractor in integrating their activities with ongoing site developments.

- Functional Performance Tests (FPTs): The CxT collaborates with the Commissioning Authority (CxA) to develop and distribute FPTs.

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ESTABLISH PROJECT GOALS

DESIGN INTENT DOCUMENT

COMMISSIONING SCHEDULE

FINAL COMMISSIONING REPORT

PRE-FUNCTIONAL TESTING

FUNCTIONAL PERFORMANCE TESTING

RE-COMMISSIONING MANUAL

DRAFT COMMISSIONING PLAN

REVIEW DESIGN

FINAL COMMISSIONING PLAN

CONTRACTOR SUBMITTAL REVIEW

OPERATING STAFF TRAINING

POST-OCCUPANCY COMMISSIONING ACTIVITIES

ESTABLISH PROJECT GOALS

COMMISSIONING SPECIFICATIONS

COMMISSIONING TASKS

FIRST-YEAR OPERATIONS REVIEW

CONCEPTUAL DESIGN

DESIGN

CONSTRUCTION

PRE-OCCUPANCY

POST-OCCUPANCY

COMMISSIONING TECHNICIAN RESPONSIBILITIES IN THE ACCEPTANCE PHASE +

- Execution of FPTs: The CxT works alongside the CxA and the commissioning team to validate system performance.
- Re-testing Procedures: If initial FPT results are unsatisfactory, the CxT reorganizes the commissioning team to conduct appropriate re-testing procedures.
- Operations and Maintenance (O&M) training: The CxT facilitates O&M training to ensure the owner's staff understands the operation and maintenance of the systems installed.
- Tracking Requests for Information (RFIs), Change Orders

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COMMISSIONING TECHNICIAN RESPONSIBILITIES IN THE ACCEPTANCE PHASE +

- (COs), and Submittal Items (SIs): The CxT tracks RFIs, COs, and SIs throughout the acceptance phase.
- Jurisdictional Authority Inspection Reports: The CxT maintains jurisdiction (AHJ) inspection reports, ensuring compliance with local regulations and codes.
- The collaborative nature of the commissioning team, particularly between the CxT and the CxA, is essential for achieving a successful project outcome.

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CORE VALUES