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BEYOND SMART CITIES



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CERTIFIED COMMISSIONING TECHNICIAN

CXT REFRESHER

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

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MODULE
6L1

Pre-function tests
include sheet checking
and installation tests.

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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CERTIFIED COMMISSIONING TECHNICIAN CXT REFRESHER

Pre-Functional Testing (PFT) is a crucial part of the commissioning process for various systems in construction projects, particularly in mechanical, electrical, and plumbing (MEP) installations. PFTs verify the correct installation and intended function before putting systems into operation, ensuring compliance with design specifications and enhancing the reliability and safety of the systems.

Learning Objectives

- Course Overview and Introduction
- CxT's Technical, Communication, and Commissioning Skills
- HVAC Systems - Why is CxA of buildings necessary?
- Basics of field TAB , HVAC systems - Trained on jobsite safety and PPE
- CxT Responsibilities - Post 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



INTRODUCTION

Pre-Functional Testing Overview

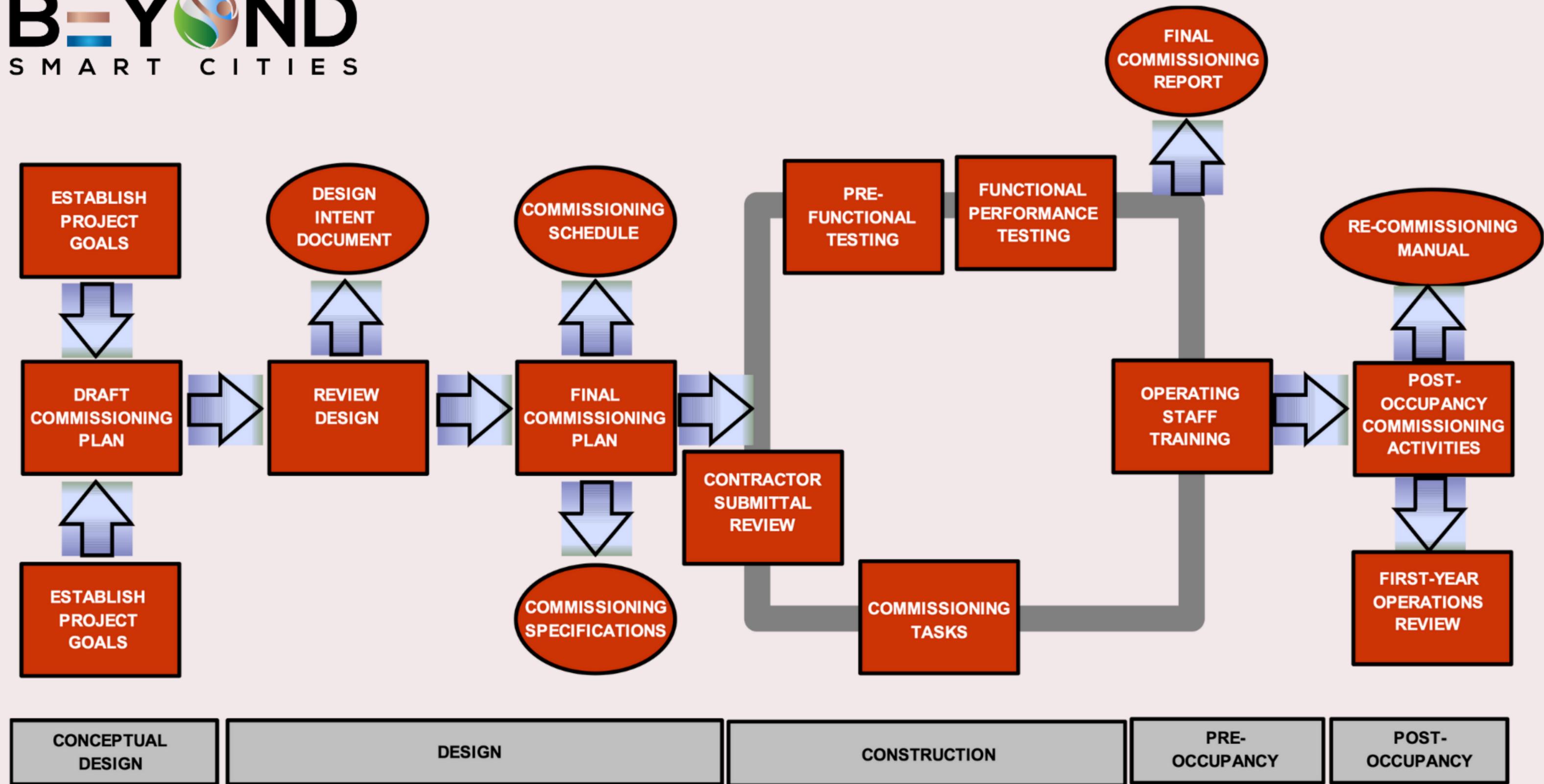
- Pre-Functional Testing (PFT) is crucial in commissioning systems in construction projects, especially in mechanical, electrical, and plumbing (MEP) installations.
- PFTs verify the correct installation and intended function before putting systems into operation, ensuring compliance with design specifications and enhancing reliability and safety.
- PFT objectives include verification of compliance, documentation, and identification of issues.

Utilizing PFT Check Sheets

- PFT check sheets serve as standardized tools that guide the inspection process.
- They include item descriptions, reference documents, and observations.
- They provide a clear, documented account of compliance versus non-compliance findings.

Performing Installation PFTs

- PFTs involve a systematic approach to compare the installation against detailed drawings and specifications.
- Steps in Performing Installation PFTs include preparation, field inspection, and documentation of findings.
- Examples include reviewing design documents, physical inspection, and documentation of findings.



UNDERSTANDING THE UTILIZATION OF PFT CHECK SHEETS IN FIELD DATA COMPARISON

Role of PFT Check Sheets



- Standardized forms used in various industries, especially in construction and engineering.
- Ensure consistent data collection across various projects and teams.
- Streamline the data collection process, allowing field personnel to focus on observations.
- Allow for easy tracking of observations, crucial for subsequent analysis and reporting.

STRUCTURE OF A PFT CHECK SHEET

- Project Identification: Name, location, and identification number of the project.
- Test/Inspection Details: Date, time, and nature of the test or inspection.
- Design/Submittal Data: Expected parameters, specifications, or criteria as outlined in design documents or submittals.
- Actual Field Data: Measured values or observations recorded during the field testing.
- Comments/Observations: Space for qualitative observations, anomalies, or recommendations for corrective actions.



COMPARING DESIGN/SUBMITTAL DATA TO ACTUAL FIELD DATA



- Preparation: Completion of the PFT check sheet with relevant design and submittal data.
- Data Collection: Use of appropriate measurement tools and techniques during the field test.
- Data Comparison: Comparison of actual data against design/submittal data.
- Documentation: Documentation of observations meticulously on the PFT check sheet.

KEY PRACTICES FOR EFFECTIVE DOCUMENTATION

- Clarity: Use of clear and concise language to describe observations.
- Detail: Provide sufficient detail to ensure understanding of the context.
- Photographic Evidence: Include photographs or diagrams to visually support observations.





CONTACT US



+91 6363032722



info@beyondsmartcities.in



learn.beyondsmartcities.in



#55,HMR Layout ,Bengaluru ,India



THANK YOU

