



wel come to
BEYOND SMART CITIES



B E Y O N D
S M A R T C I T I E S

COMMISSIONING CERTIFIED TECHNICIAN

CXCT REFRESHER

ONLINE TRAINING BY KRISHNAJI PAWAR

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

KNOWLEDGE IS POWER

LEARN . B E Y O N D S M A R T C I T I E S . I N

BEYOND
SMART CITIES

MODULE
6L2

Perform Installation Pre-functional tests

KRISHNAJI PAWAR - CEO & FOUNDER

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

WWW.BEYONDSMARTCITIES.IN



COMMISSIONING CERTIFIED TECHNICIAN CXCT REFRESHER

Pre-functional testing is a crucial phase in the installation of systems, particularly in engineering, construction, and manufacturing. It serves as a preliminary verification process to confirm the correct installation and compliance of all system components with specified requirements. The primary objectives of pre-functional testing include verifying installation quality, compliance with design specifications, and documentation.

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 - Post Acceptance**
- **Perform installation pre-functional tests**
- **Point-to-point calibrate MEP and sensor systems.**
- **Verify TAB pre-functional tests and CxT responsibilities**



INTRODUCTION

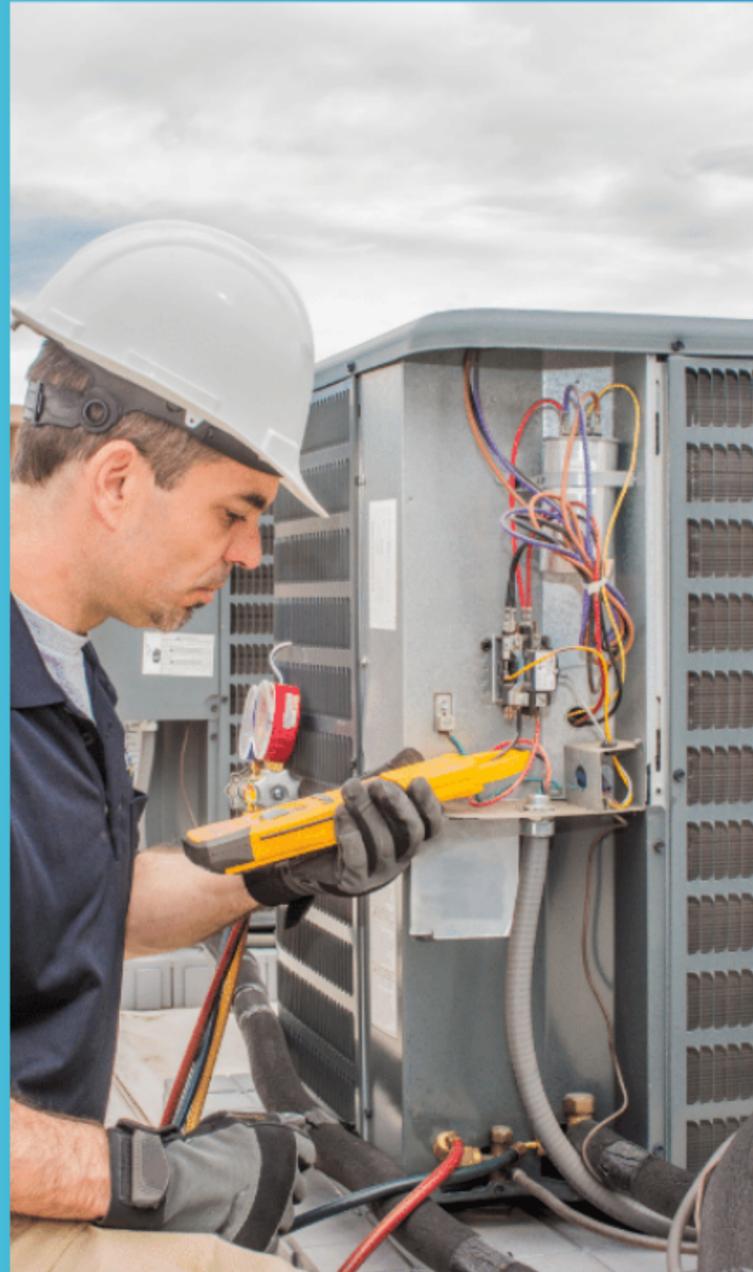
Introduction to Pre-Functional Testing

- Pre-functional testing is a crucial phase in system installation, confirming correct installation and compliance with specified requirements.
- It helps identify discrepancies early, reducing the risk of costly modifications and delays.

Objectives of Pre-Functional Testing

- **Verification of Installation Quality:** Verifies the installation of all components in accordance with manufacturer specifications and applicable codes.
- **Compliance with Design Specifications:** Verifies adherence to design by comparing installed systems to detailed drawings and specifications.
- **Documentation:** Maintains a detailed record of observations, findings, and deviations from expected outcomes.

COMPARISON OF INSTALLATION TO DETAIL DRAWINGS



- Preparation: Gathers all relevant documentation, including detailed drawings, installation manuals, and manufacturer specifications.
- Visual Inspection: Conducts a thorough visual inspection of the installed components.
- Dimension Check: Uses calibrated measuring tools to compare the actual dimensions of installed components against the specifications provided in the drawings.
- Functional Features: Verifies that all functional features are located and installed according to the drawings.
- Material Compliance: Ensures that the materials used in installation correspond to those specified in the drawings.

DOCUMENTING OBSERVATIONS

- Observation Log: Maintains a detailed log that includes the date and time of inspection, the specific component or system evaluated, the inspector's name, and any observations made.
- Photographic Evidence: Captures photographs of installed components that demonstrate compliance or non-compliance.
- Non-Conformance Reports: Prepares a non-conformance report identifying discrepancies and suggests corrective actions.
- Sign-Off Procedures: Ensures that relevant stakeholders review and sign off on all inspection records to validate the installation's compliance.





CONTACT US



+91 6363032722



info@beyondsmartcities.in



learn.beyondsmartcities.in



#55,HMR Layout ,Bengaluru ,India



THANK YOU

