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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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BEYOND
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MODULE
9L5

Document Observations & Interpret Basic Terminal Unit Trends.

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Terminal units are essential in building systems, particularly in HVAC systems, for delivering temperature-controlled air to individual zones within a building. Understanding these units and documenting observations during functional testing is crucial during the commissioning phase to ensure systems perform as intended. There are several types of terminal units, such as fan coil units, variable air volume (VAV) boxes, and chilled beams.

Learning Objectives

- Document Observations & Interpret Basic Terminal Unit Trends.
- Airside, water, and control system troubleshooting
- Required O&M paperwork and training Preventive maintenancetems
- Retro-commissioning
- Commissioning professional certification & its importance.
- Point-to-point calibrate MEP & sensor systems.
- Green building rating systems & commissioning
- Summary and Resources
- CxT Practice Exam: Test Your Knowledge!



INTRODUCTION

- Terminal units are essential for the effective distribution of conditioned air or fluid in HVAC systems.
- They deliver temperature-controlled air to individual zones within a building, ensuring occupant comfort and energy efficiency.

UNDERSTANDING TERMINAL UNITS



- Fan Coil Units (FCUs): Use a fan and a coil to heat or cool air.
- Variable Air Volume (VAV) Boxes: Regulate airflow to maintain a specific temperature in a zone.
- Chilled Beams: Passively cool a space through natural convection and radiation.

Interpreting Trends

- Trends in terminal units are analyzed over time to identify patterns indicating performance, efficiency, and operational reliability.
- Data can be collected via building management systems (BMS), which log operational parameters such as temperature, airflow, humidity, and energy consumption.
- Trend analysis can determine the efficiency and effectiveness of terminal units. Key indicators include temperature stability, energy consumption, and response time.



DOCUMENTING FUNCTIONAL TESTING OBSERVATIONS



- Documentation during functional testing is vital for effective commissioning.
- It serves several purposes: establishing baselines, identifying issues, ensuring compliance, and facilitating communication.
- Effective documentation should include date and time of testing, unit identification, test parameters, observed values, comments and observations, and follow-up actions.



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