

Ongoing Commissioning OCx Best Practices

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8.SUMMARY AND RESOURCES

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COMMISSIONING SPECIALIST CURRICULUM

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Learning Objectives

- Summary
- Resources



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An ongoing commissioning process includes daily monitoring of the facility’s HVAC systems, site inspections, comparison of the current data with expected results, and continued adjustments to control sequences and set points for optimum HVAC system performance and occupant thermal comfort. The process also uncovers new issues as they arise in the operation of MEP systems and the building automation system. Moreover, an ongoing commissioning team is able to resolve most issues quickly, before they make a significant impact on the facility’s operations.





Introduction

An ongoing program tailored to meet facility operational requirements and sustainability goals. Successful programs may be initiated any time during the life of a building: immediately after construction of a commissioned building or years later in a building that was never commissioned.

The U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Existing Building (EB) Operations and Maintenance (O&M) v4 Energy and Atmosphere (EA) Credit 2.3: Existing Building Commissioning – Ongoing Commissioning provides the following definition:

Ongoing commissioning is a continuous process that methodically identifies and corrects system problems to maintain optimal building performance; it includes regular measurement and comparative analysis of building energy data over time.

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Introduction to Ongoing Commissioning – OCx

1. The concept of ongoing commissioning (OCx) is not new to construction.
2. New and existing building commissioning has traditionally used this method as a way of providing continuous performance and a strategy for deploying technology-based solutions to optimise building performance.
3. Commissioning providers increasingly use OCx as a result of the increasing sophistication of commissioning tools and the widespread availability of technology for managing building performance data.
4. The Beyond Smart Cities project has discovered a commercial and technical need for standard operating procedures (best practises) guidance for OCx.
5. The goal is to further clarify commissioning for stakeholders so that they can be better educated and the quality of planning and executing continuing commissioning can be maintained.



Excellence in Commissioning Buildings for the Spaces We Share

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Who We Are

BEYOND SMART CITIES

Beyond Smart Cities is the world's first marketplace for green technology. It connects millions of sustainability experts, green building experts, energy experts and commissioning experts with independent talent from all over the world.

Our mission is to build and support a global community of experts with the highest standards of professional practise in sustainability, green building, energy, commissioning and managing GHG emissions.

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What We Do

Our aim is to assist the building commissioning sector and advocate for commissioning professionals who assure the best risk management, quality assurance, and resilience in new and ageing structures. We support building commissioning to create functioning buildings, establish best practises, shape industry regulations and standards, and provide a wide range of education and training.

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Online specialist courses taught by the world's leading experts. Empowering each specialist for success.

Whether you're a commissioning provider or a building industry stakeholder, we have online courses that will help you start, expand, or refresh your knowledge of the commissioning process and technical applications.

Question Bank questions are multiple-choice. 500+ simulated questions can help students pass the exam. The latest CCP, ACP, BCxP, CxA and CBCP tests are simulation-compatible.

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Resources

- ASHRAE Guideline 1.2-2019: Technical Requirements for the Commissioning Process for Existing HVAC&R
- Systems and Assemblies
- ASHRAE (2015), ASHRAE Guideline 0.2-2015: Commissioning Process for Existing Building Systems and Assemblies
- ASHRAE/Building Commissioning Association (2019), Commissioning Stakeholder's Guide
- Building Commissioning Association (2019), Existing Building Commissioning Best Practices
- Building Commissioning Association (2018), New Construction Commissioning Best Practices
- Building Commissioning Association/APPA (2017), Building Commissioning Handbook, Third Edition
- California Energy Commission/California Commissioning Collaborative (2011), The Building Performance Tracking Handbook
- Lawrence Berkeley National Laboratory (2017), Characterization and Survey of Automated Fault Detection and Diagnostic Tools
- Lawrence Berkeley National Laboratory (2017), Monitoring Based Commissioning Plan Template Lawrence Berkeley National Laboratory/Department of Energy (2011), Energy Information Handbook:
- Applications for Energy-Efficient Building Operations
- U.S. Department of Energy (2015), M&V Guidelines: Measurement and Verification for Performance- Based Contracts Version 4.0
- Learn.beyondsmartcities.in

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