



BUILDING COMMISSIONING PROFESSIONAL - BCXP EXAM PREP

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP
COMMISSIONING SPECIALIST CURRICULUM





COMMISSIONING BASICS

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LEARNING OBJECTIVES



- What is Commissioning ?
- Purpose of Building Commissioning
- About ASHRAE
- Building Commissioning Professional - BCxP





WHAT IS COMMISSIONING

Commissioning is: "The Commissioning Process is a quality-oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria."

-----ASHRAE Guideline 0

- "...a systematic, documented, and collaborative process including inspection, testing, and training."
- "...a quality assurance procedure applied to building construction throughout the entire project..."

PURPOSE OF BUILDING COMMISSIONING

- "The basic purpose of building commissioning is to provide a quality based process with documented confirmation that building systems are planned, designed, installed, tested, operated and maintained in compliance with the Owner's Project Requirements (OPR)."
- "Commissioning of existing systems may require the development of new functional criteria in order to address the owner's current systems performance requirements."
- "The commissioning process ideally begins at project inception (predesign phase) and continues in phase-specific functions through facility and system operation."
- "It is not a design or construction function, but it assists in and verifies that the results of these functions can produce a facility and systems that meets the requirements for performance."
- "Depending upon the Owner's needs, these might include; functionality, efficiency, sustainability, environmental and health impacts, interior occupancy conditions, resilience, and others that will maximize facility and system profitability for the Owner and the occupants."

ABOUT ASHRAE

- The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) is a global membership organisation dedicated to advancing the arts and sciences of heating, ventilation, air conditioning, and refrigeration in order to benefit humanity and advance a sustainable global community.
- This objective is supported by the Building Commissioning Professional (BCxP) certification programme, which reflects best practises that are at the forefront of our sector and validates job competency as understood in internationally recognised technical knowledge.
- The BCxP certification programme from ASHRAE verifies the ability to lead, plan, organise, and manage a commissioning team for the implementation of commissioning processes in new and existing buildings.

WHO CAN PARTICIPATE

Participation in the ASHRAE BCxP programme is contingent upon meeting the eligibility standards for education and work experience and passing the program's assessment. Participation in the programme does not require ASHRAE membership.



WHY EMPLOYERS SUPPORT THE ASHRAE BCXP

- ✓ Hire the best professionals you can.
- ✓ Customers and potential customers have a better opinion of you and trust you more.
- ✓ Better compliance with local, state, and federal rules and regulations
- ✓ Provides defined, value-added professional development goal
- ✓ More employees staying on the job and being happy with it



ELIGIBILITY REQUIREMENTS

Professional Education	Project Experience
Licensed Architect or Professional Engineer	3 years' commissioning experience
Bachelor's Degree in the building sciences* or equivalent military training/service	5 years' commissioning experience
Associate/Technical/Vocational 2-year degree, non-building related Bachelors of Science Degree, or equivalent military training/service	8 years' building industry experience** with at least 5 of those years spent working in building commissioning.
High School Diploma or GED	10 years' building industry experience** with at least 5 of those years spent working in building commissioning.

*Building science education is defined as mechanical engineering, electrical engineering, construction science, construction management, architecture and other majors/fields of study designed to train people for careers in the building industry.

**Building industry experience is defined as design, construction, testing and commissioning, code enforcement and operations.



MANDATORY EXPERIENCE REQUIREMENTS



Document having taken part in three projects that were commissioned. One- and two-family homes are not allowed as part of the projects. The applicant must have taken part in at least six of the following during the projects:

- ☑ Putting together an OPR/CFR,
- ☑ Make a plan for commissioning,
- ☑ Look over a design,
- ☑ Check things out in the field,
- ☑ Be in charge of testing performance,
- ☑ Making up for mistakes,
- ☑ Training, and
- ☑ Make a report on the commissioning.

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