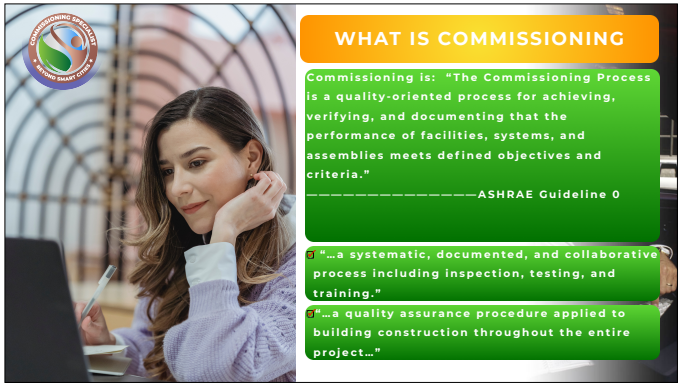
BEYOND
SMART CITIES
CERTIFIED BUIILDING COMMISSIONING PROFESSIONAL- CBCP EXAM PREP
KRISHNAJI PAWAR, LEED AP BD+C,GSAS CGP,ISO 14001:2015,GCP
COMMISSIONING SPECIALIST CURRICULUM

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

LEARNING OBJECTIVES
What is Commissioning ?
Purpose of Building Commissioning
About AEE
Certified Building Commissioning Professional - CBCP



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 AEE

- Over 28,000 professionals in 105 countries rely on the Association of Energy Engineers to advance the interests of the energy industry and promote sustainable development.
- Operating in the dynamic domains of energy engineering, energy management and efficiency, renewable and alternative energy, power generation, energy services, and sustainability, as well as all associated fields.
- AEE is a non-profit organisation committed to supporting our members and other industry experts who are working to increase energy efficiency in order to save energy, reduce greenhouse gas emissions, improve the performance of buildings, and contribute to achieving global Net-Zero goals.

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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THANK YOU

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