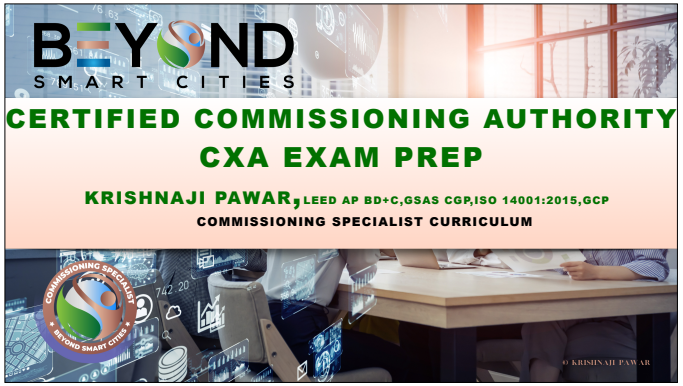
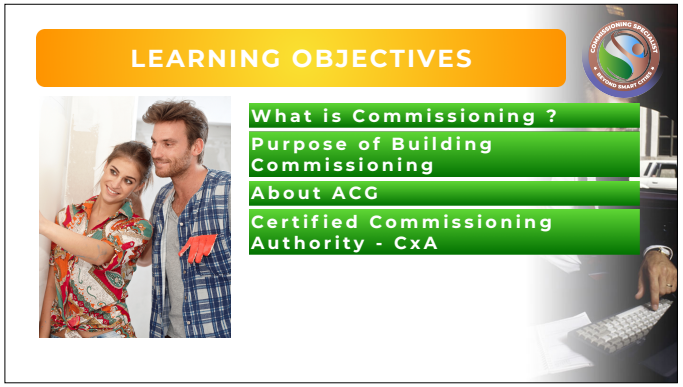

BEYOND
SMART CITIES
CERTIFIED COMMISSIONING AUTHORITY
CXA EXAM PREP
KRISHNAJI PAWAR, LEED AP BD+C,GSAS CGP,ISO 14001:2015,GCP
COMMISSIONING SPECIALIST CURRICULUM


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 ACG
Certified Commissioning Authority - CxA



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 ACG

- The AABC Commissioning Group (ACG) is a non-profit association dedicated to the advancement of independent third-party commissioning professionals.
- ACG's Certified Commissioning Authority (CxA) certification is available to independent industry professionals who lead, plan, coordinate and manage commissioning teams to implement commissioning processes in new and existing buildings.
- ACG strives to promote a better understanding of the commissioning process by educating, training, and certifying qualified individuals as Certified Commissioning Authorities (CxAs), and Certified Commissioning Technicians (CxTs).
- Established in 2004 to better serve the growing commissioning community, ACG's fundamental principles include independence, certification, and training and education:The AABC Commissioning Group (ACG) is a non-profit association dedicated to the advancement of independent third-party commissioning professionals.

WHO CAN PARTICIPATE

- Established in 2004 to better serve the growing commissioning community, ACG's fundamental principles include independence, certification, and training and education:
- To sit for ACG's CxA certification exam, applicants must meet all eligibility requirements (including independence) to demonstrate experience, a thorough knowledge and understanding of the commissioning process, and their ability to provide professional commissioning services in accordance with ACG requirements and industry best practices.

WHY EMPLOYERS SUPPORT THE ACG CXA

- 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 othr 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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