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COMMISSIONING SPECIALIST
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COMMISSIONING AUTHORITY
CXA OVERVIEW
ONLINE TRAINING BY KRISHNAJI PAWAR
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001
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MODULE 5

Professional Certification in Building Commissioning

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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COMMISSIONING AUTHORITY

CXA OVERVIEW

Certifications are essential for work market commissioning experts and managers since they demonstrate experience, increase earnings, and establish trust in the business. They also exhibit a commitment to providing high-quality service and being up to date on new technologies.

Learning Objectives

- Course Overview and Introduction
- Definition and History of Building Commissioning
- Why is building commissioning needed?
- Building Commissioning Process Overview
- Professional Certification in Commissioning
- Cost and benefits of building commissioning
- Summary and Resources
- CxA Sample Exam Question

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INTRODUCTION

- Equips engineers with knowledge and skills for correct commissioning of technical systems.
- Responsibilities include testing, troubleshooting, and confirming system functionality.
- Covers topics like safety protocols, electrical theory, system design principles, troubleshooting techniques, and system installation procedures.
- Provides guidance on documenting results and generating performance metric reports.
- Requires thorough review of credentials, experience, and industry regulations.

COMMISSIONING TEAM ROLE IN CONSTRUCTION

- The commissioning team comprises various stakeholders during the construction process.
- Each project has a commissioning provider who manages and plans all commissioning activities.
- The team includes a Cx provider, client representative, architect, MEP designers, and contractors.
- The commissioning organization is adapted according to the complexity and quality expectations of the project.





COMMISSIONING TEAM ROLE IN CONSTRUCTION +



- Other stakeholders like green building consultants and manufacturers of critical components may also participate.
- The commissioning provider can be the client's, designer's, or contractor's representative or an independent third party company.
- The best approach depends on the complexity, type, and size of the project.
- For projects seeking LEED certification, the independent third party Cx provider is mandatory.

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COMMISSIONING PROVIDER SKILLS REQUIREMENT

- Maintains unbiased problem-solving and conflict resolution approach.
- Knowledge of HVAC systems, including design, control strategies, installation, operations, and maintenance.
- Experience in HVAC controls, including current technology.
- Practical background in field construction.
- Ability to organize specific activities into a coherent commissioning plan.
- Good communication skills, documentation proficiency.
- Experience in working with multidisciplinary teams.
- Familiarity with testing and balancing.



ACG'S CXA CERTIFICATION PROGRAM

- Non-profit association established in 2005.
- Promotes understanding of building commissioning process through education, training, and certification.
- Offers Certified Commissioning Authority (CxA) certification program for independent professionals.
- Operates under the authority of ACG Certification Council.
- Recognizes technical, management, and communications skills required for competent performance.
- Scope developed by U.S. Department of Energy with industry input.
- Changes require Council approval.





WHO ARE CERTIFIED COMMISSIONING AUTHORITY?



- Lead, plan, coordinate, or manage building systems commissioning processes.
- Energy professionals with technical, management, and communication skills.
- Provide building commissioning services to federally funded projects.
- Specialize in energy efficiency of building systems, upgrades, and optimization.

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WHAT DOES A CXA DO?



- Ensures design, installation, testing, and operation of new building systems.
- Leads, plans, coordinates, and documents the commissioning process on various buildings.
- Interacts with commissioning teams and field personnel.
- Manages renovations, upgrades, and system tune-ups..

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BODY OF KNOWLEDGE - CXA

Upon meeting and approving eligibility requirements, applicants become candidates for the CxA certification examination, which is a prerequisite for obtaining CxA certification.

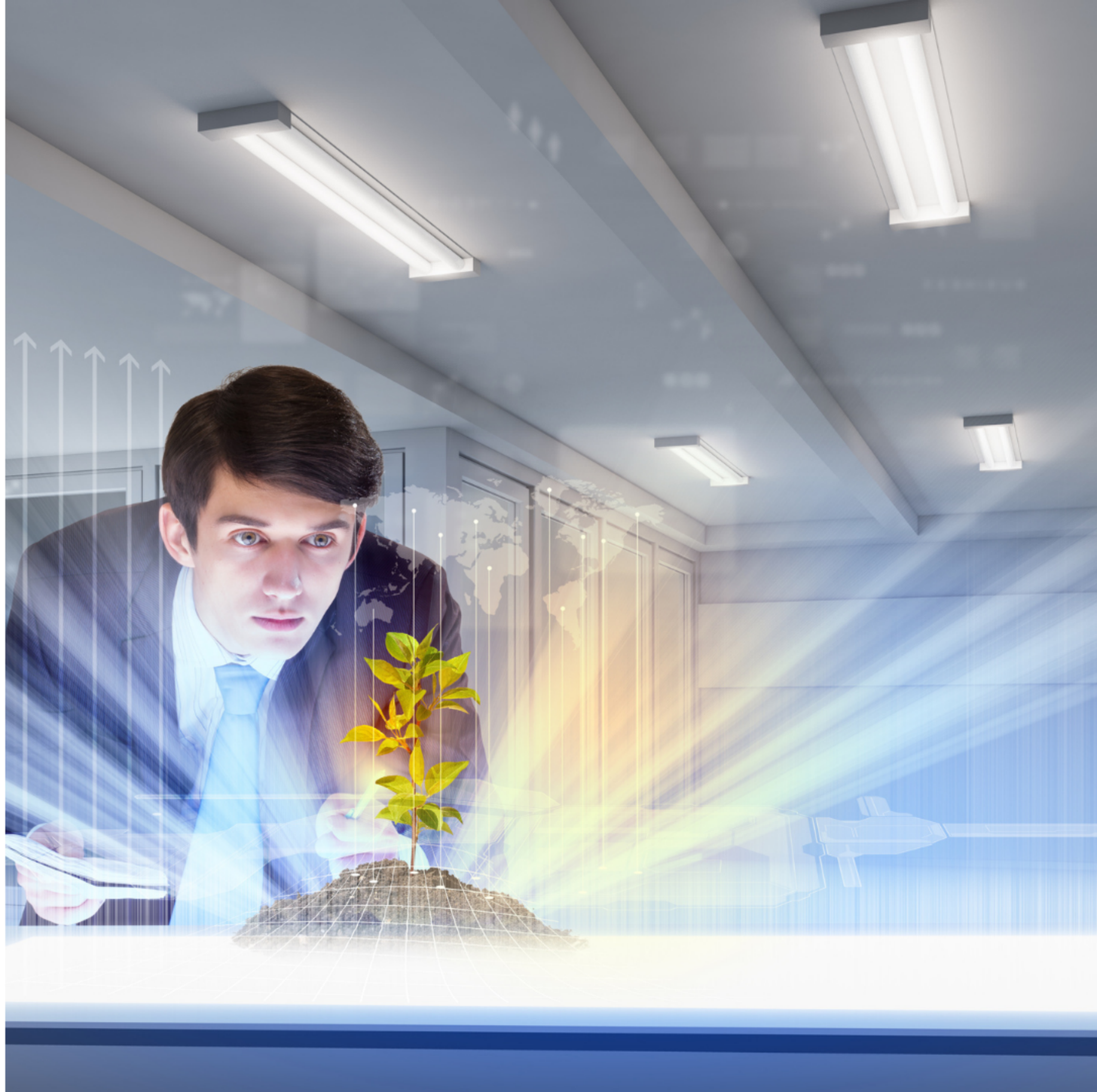




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Attaining the CxA demonstrates:

- Gained knowledge and technical application of new construction commissioning process.
- Focused on professional growth and development.
- Enhanced professional credibility.
- Increased job opportunities.
- ANSI-accredited.
- Recognized by Department of Energy's Better Buildings® Workforce Guidelines program.
- Approved commissioning credential for federally funded projects.



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Benefits of the Certified Commissioning Authority (CxA) Exam Question Bank

- Assessment of knowledge before final exam.
- Access to over 820+ questions in 7 mock exams.
- Understanding reasoning behind each question and answer.
- Simulation exams cover CxA Exam Knowledge Domains.
- Familiarization with building commissioning and terminology.
- High chances of passing exam on first attempt.
- CxA Exam Flash Cards with over 108+ key terms.
- CxA_Engineering and HVAC design equations.



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We develop a global community of experts in sustainability, energy audit and management, commissioning, climate change, carbon accounting, and GHG emission management who practice to the highest standards.





ACG'S CXA EXAM QUESTION BANK

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CONTACT US

+91 6363032722

info@beyondsmartcities.in

learn.beyondsmartcities.in

#55,HMR Layout ,Bengaluru ,India



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