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ENERGY AUDIT SPECIALIST
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welcome to
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BUILDING ENERGY ASSESSMENT OVERVIEW

ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

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

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MODULE 5

Energy Assessment and Audit Professional Certification

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BUILDING ENERGY ASSESSMENT OVERVIEW

An energy auditor conducts an assessment and examination of the energy utilization patterns within a commercial or institutional establishment, identifying potential areas for energy conservation and providing suggestions on how to optimize or decrease consumption.

Learning Objectives

- Introduction
- Principles and Concepts of Energy Assessment
- Types of Energy Audits or Assessments
- Role of an Energy Auditor or Manager
- Energy Assessment and Audit Professional Certification
- Benefits of Energy Audits or Assessments
- Summary and Resources

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INTRODUCTION

- Energy Auditors' Role in Energy Efficiency Assessments
- Assess energy efficiency in large buildings and industrial facilities.
- Cover systems, occupancy, operations, maintenance, and code compliance.
- Provide detailed survey results, risk mitigation analysis, implementation plans, and investment-grade analysis.
- Work to predefined codes and standards like ASHRAE Standard 211-2018.



BEAP CERTIFICATION OVERVIEW



- ANSI-Accredited Personnel Certification Program under ISO/IEC 17024.
- Validates competency to assess building systems and site conditions.
- Analyzes and evaluates equipment and energy usage.
- Recommends strategies to optimize building resource utilization.
- Enhances reputation and career opportunities.
- Guarantees enhanced recognition through the BEAP digital badge.
- Accredited by the U.S. Department of Energy.

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WHO ARE CERTIFIED ENERGY AUDITORS OR BEAP OR CEA?

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- Evaluate and analyze facility energy use.
- Identify energy conservation opportunities.
- Recommend reduction or optimization of consumption.
- Validate energy auditor experience and knowledge.
- Specialize in energy efficiency upgrades to buildings and systems.
- Conduct audits and assessments in government buildings.





OVERVIEW OF BEAP ELIGIBILITY REQUIREMENTS



- Academic and Professional Background
- Five commercial energy audits
- A total of two hours of continuing education (CE) in safety training.
- Ethical Code
- Achieve BEAP Certification by successfully passing the certification exam.

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BEAP CERTIFICATION EXAM BLUEPRINT

Building Energy Assessment Professional Certification Examination Content Outline	Complexity Level and Number of Items			
	Recall	Application	Analysis	TOTALS
1. Communicating With Stakeholders	2	2	1	5
A. Identify the owner's project team.				1
B. Review the scope and process with the client.				4
2. Developing The Action Plan	3	3	1	7
A. Conduct pre-audit activities.				2
B. Generate preliminary list of systems and assemblies to be audited.				2
C. Determine audit tools and forms.				1
D. Determine project schedule.				1
E. Identify safety and access requirements of the facility.				1
3. Conducting Pre-Site Visit Data Collection Activities	1	2	1	4
A. Obtain utility information.				1
B. Obtain facility data from point of contact.				1
C. Gather historical weather data.				2
4. Collecting Data On-Site	7	10	4	21
A. Obtain information from facility staff.				2
B. Obtain information from facility occupants.				2
C. Assess the building envelope.				7
D. Assess building systems and components.				10
5. Analyzing Building Performance Data	9	11	5	25
A. Establish energy and cost baseline.				6
B. Establish benchmarks.				6
C. Disaggregate the energy end use breakdown.				13
6. Identifying Opportunities For Improving Building Performance	10	14	6	30
A. Identify deviations from best practices.				6
B. Determine energy impact of each measure.				10
C. Estimate implementation cost.				4
D. Conduct an economic analysis.				10
7. Producing The Deliverable	3	3	2	8
A. Write a summary audit report.				8
TOTAL	35	45	20	100

Examination Passing Score

- When the BEAP Exam Subcommittee conducts a passing point study, the expert judgments of subject matter experts are used to produce and interpret results, and set the exam passing score.
- Score Needed to Pass BEAP Exam: 68/100
- Life-to-Date Pass Rate for First-Time Examinees through 12/2022: 75%



BUILDING ENERGY ASSESSMENT PROFESSIONAL: EXAM QUESTION BANK



The Building Energy Assessment Professional - BEAP Exam Question Bank, along with the 500-question BEAP Practice Exam, is a valuable resource for professionals in energy management and service sectors to create a personalized study strategy for their professional development goals.

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SIMULATION EXAMS FOR ASHRAE'S BEAP EXAM

- Assess knowledge before final exam.
- Provides test questions similar to actual exam questions.
- Offers over 500 questions in five mock exams ranging from easy to expert.
- Helps understand reasoning behind each question and answer.
- Covers BEAP Exam Knowledge Domains.
- Familiarizes students with BEAP knowledge domain and terminology.
- Predicts exam passing on first attempt.
- Provides direct explanation for questions.
- Includes Building Energy Assessment Professional-BEAP Exam Flash Cards and BEAP Engineering and HVAC Design Equations.





BUILDING ENERGY ASSESSMENT PROFESSIONAL EXAM PREP



- Complete online course for building energy assessment professionals.
- Includes 100-question BEAP Practice Exam.
- Unique tools for creating customized study plans.
- Aims to help professionals achieve professional development goals.

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EMPLOYERS SUPPORT ASHRAE BEAP

- Recruits qualified professionals.
- Enhances customer reputation.
- Ensures compliance with requirements.
- Provides professional development.
- Increases job satisfaction and retention.

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BUILDING ENERGY ASSESSMENT PROFESSIONAL BEAP EXAM QUESTION BANK

On-demand Learning Courses and Exam Question Banks





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The Building Energy Assessment Professional - BEAP Exam Question Bank, along with the 500-question BEAP Practice Exam, is a valuable resource for professionals in energy management and service sectors to create a personalised study strategy for their professional development goals.



Learning Objectives

- Five sample tests with over 500+ questions range from easy to difficult to specialist.
- Learn each question's reasoning and relevant knowledge to review.
- Learn energy efficiency and management terms.
- 244+ BEAP Exam Terms and Concepts Flash Cards!
- Professionals Assessing Building Energy: Engineering Equations

Who can benefit?

- Any building science experts seeking BEAP certification
- Energy consultants and engineers
- Energy auditors in good standing are pursuing certification.
- Emerging energy auditors
- Engineers of plants and facilities
- Energy administrators
- Experts at energy service companies (ESCO)
- Experts in energy performance contracting (EPC)
- Entities contemplating energy initiatives



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Benefits of our simulation exams

- Assessment of knowledge before final exam.
- Over 500 questions in FIVE mock exams ranging from easy to expert.
- Understanding reasoning behind each question and answer.
- Simulation exams cover BEAP Exam Knowledge Domains.
- Familiarization with BEAP knowledge domain and terminology.
- High chances of passing exam on first attempt.
- Direct contact with course provider for further explanations.
- Building Energy Assessment Professional-BEAP Exam Flash Cards with 244+ key terminology.



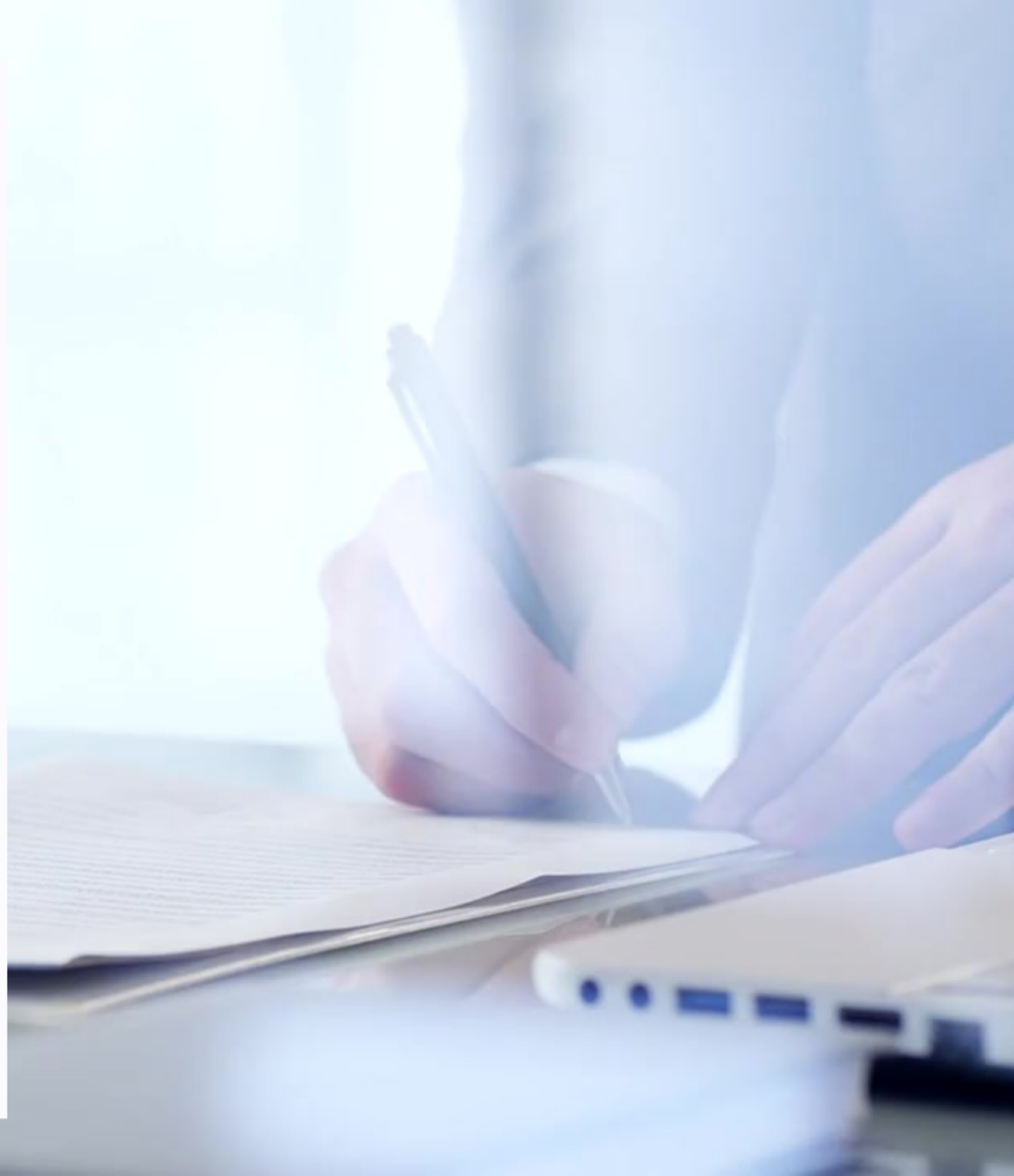
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We construct a global community of high-standard sustainability, building energy assessment, energy audit and management, commissioning, climate change, GHG accounting, and GHG emission management professionals.



Leadership and Coaching Training

Beyond Smart Cities is the world’s first Green Technology Marketplace, connecting millions of Sustainability, Green Building, Energy, commissioning, and technology specialists and manufacturers with independent talent around the globe.infinite possibilities exists.”



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THANK YOU

