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ENERGY AUDIT SPECIALIST
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INDUSTRIAL ENERGY AUDITS 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

Industrial Energy Audits Professional Certification

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

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INDUSTRIAL ENERGY AUDITS OVERVIEW

Rising energy costs and inefficiency in plants and industrial facilities is continually driving the need for trained and experienced industrial energy professionals.

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.

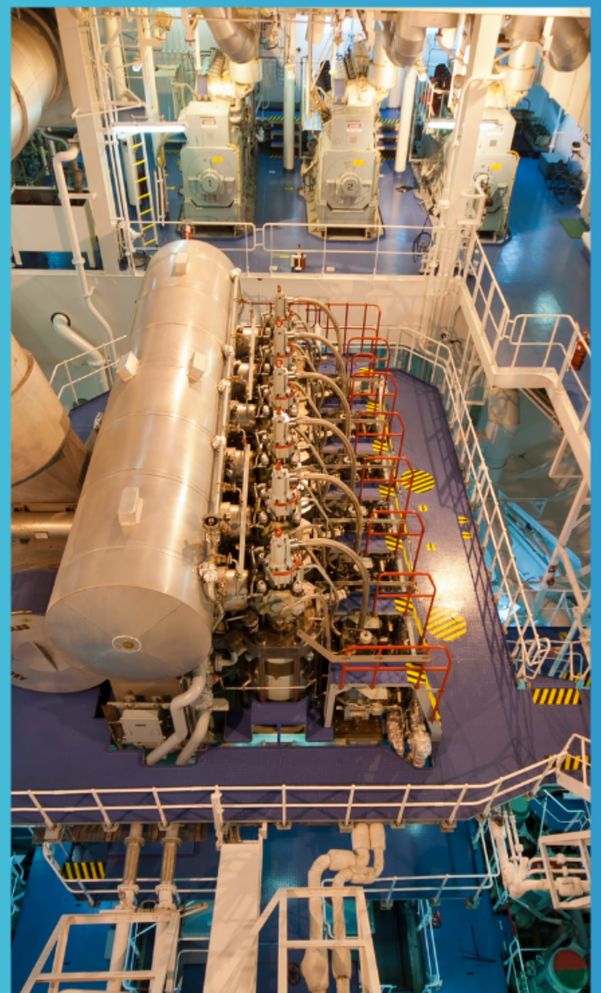
WHO ARE CERTIFIED ENERGY AUDITORS OR BEAP OR CIEP?

- 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.



CIEP CERTIFICATION OVERVIEW





- Rising energy costs and inefficiency in industrial facilities necessitate trained professionals.
- CIEP certification identifies professionals with necessary knowledge and experience.
- Professionals ensure optimal performance and energy efficiency in industrial facilities.
- Use proven energy management systems and audit processes like ISO50001 and ISO50002.
- Identify inefficiencies and define cost reduction strategies.
- Technical experts understand varied equipment and systems to improve system performance.

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CIEP CERTIFICATION OVERVIEW+



- Demonstrate competency in industrial energy audits, energy management systems, instrumentation and controls, energy investigation support tools, fuels, furnaces, fired equipment, plant water systems, heat exchange systems, boiler and steam systems, electric motors & drives, pump systems, fan systems, and compressed air systems.

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CIEP CERTIFICATION OVERVIEW+



- Technical or operations engineers optimizing industrial equipment performance.
- Consultants specializing in energy efficiency of plant, manufacturing, or industrial facilities.
- Industrial plant managers responsible for energy or utility costs.

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OVERVIEW OF CIEP ELIGIBILITY REQUIREMENTS



- Bachelor's degree or Professional Engineer (PE) or Registered Architect (RA) with 3+ years work experience.
- 4-year unrelated Bachelor’s degree with 5+ years work experience.
- 2-year associate degree with 5+ years work experience.
- 10+ years related work experience.
- Current Certified Energy Manager (CEM).

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CIEP CERTIFICATION EXAM KNOWLEDGE DOMAIN

	Body of Knowledge	Percent of Exam
1	Fundamentals to Industrial Energy Audits and Energy Management Systems	5 - 7%
2	Instrumentation and Controls	6 - 8%
3	Energy Investigation Support Tools	6 - 8%
4	Fuels, Furnaces, and Fired Equipment Basics	8% - 12%
5	Plant Water Systems	6% - 8%
6	Heat Exchange Systems	8% - 12%
7	Boiler and Steam Systems	10% - 14%
8	Electric Motors & Drives	8% - 12%
9	Pump Systems	8% - 12%
10	Fan Systems	7% - 11%
11	Compressed Air Systems	8% - 12%



CERTIFIED INDUSTRIAL ENERGY PROFESSIONAL - CIEP EXAM QUESTION BANK



The 500-question CIEP Exam Question Bank with key terminology flash cards is helpful on its own, but the Certified Industrial Energy Professional - CIEP Exam Question Bank will help industrial energy professionals create a targeted, individualized study plan to meet their professional development goals.

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SIMULATION EXAMS FOR AEE'S CIEP EXAM

- Over 500 questions in 5 practice exams.
- Understanding reasoning and related knowledge areas.
- Familiarity with industrial energy management acronyms.
- Recognizing strategies and making smart choices.
- Experimenting with CIEP exam.
- Responding to circumstances.
- Consideration of practice test as part of education.
- New CIEP: 236+ Key Terminology Flash Cards.





CERTIFIED INDUSTRIAL ENERGY PROFESSIONAL – CIEP REFRESHER

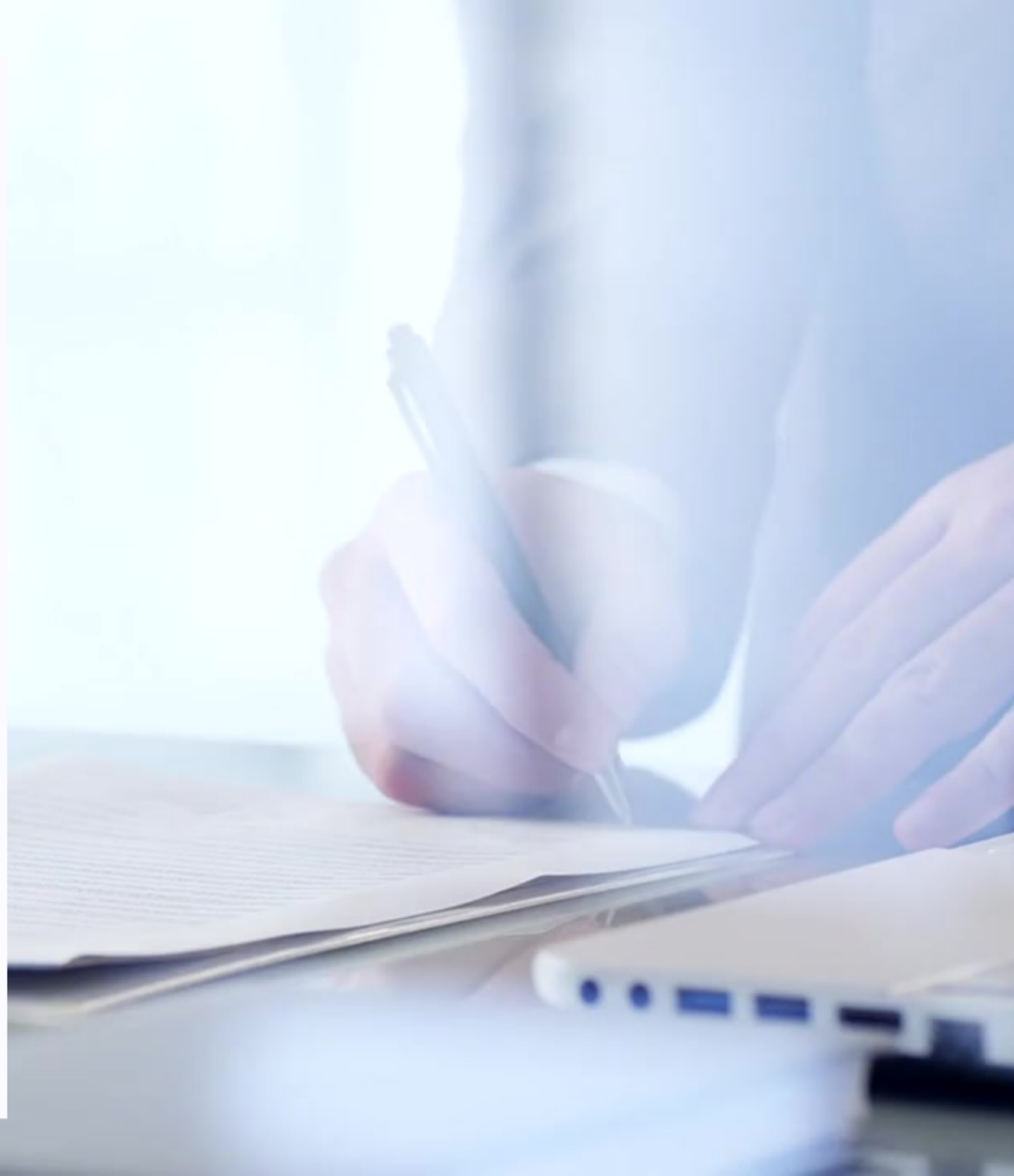


- Energy Management in Industrial and Manufacturing
- Utilizing latest industrial processes and technologies for improved system performance and energy efficiency.
- Implementing energy management systems and audits processes to identify energy savings and reduce costs.
- Understanding economic aspects of energy management for successful energy reduction projects.
- Supporting Energy Investigation Tools.
- Basics of Fuels, Furnaces, and Fired Equipment.

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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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