

BEYOND

SMART CITIES

BUILDING AUTOMATION & CONTROL SYSTEM

CEM REFRESHER TRAINING

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

ENERGY MANAGEMENT SPECIALIST CURRICULUM

CERTIFIED BUILDING AUTOMATION SPECIALIST

CBAS

BEYOND

SMART CITIES

SUMMARY AND RESOURCES

FOR ENERGY MANAGEMENT SPECIALIST

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CERTIFIED BUILDING AUTOMATION SPECIALIST

CBAS

WHAT SHOULD YOU LEARN

Summary

Resources

CERTIFIED BUILDING AUTOMATION SPECIALIST

CBAS

SUMMARY



Learn Optimization and Safety for Various Energy-Related Systems.
Understand PID Algorithms, Basic Control Terminology.
Automation Systems Interoperability and IoT.
Current Technologies and Hardware and Energy Savings Strategies.
Energy Management System Functions & Programs for the BAS.
Building Sustainability through Building Automation.
Environmental Benefits - Building Automation.
Best Practices in IOT for Green Building Management.

KEY TAKEAWAYS

Work through practical examples to demonstrate the topics and procedures covered.
Review the various areas of the Body of Knowledge - HVAC Systems with AEE's / BEE's certification exam perspective.
Work through practical examples to demonstrate the topics and procedures covered.
This training program helps to prepare attendees to take the Certified Energy Manager® (CEM®) exam.
One of the most globally respected certifications in the field of energy efficiency and energy management. Gain industry and peer recognition, bring value to your organization and propel your career forward.

Get CERTIFIED ENERGY MANAGER - CEM Credentials in your CV

BODY KNOWLEDGE

✓ Codes and Standards -----3%-5%
✓ Energy Accounting and Economics -----6%-10%
✓ Energy Audits and Instrumentation -----8%-12%
✓ Electrical Power Systems and Motors -----9%-13%
✓ HVAC Systems-----9%-13%
✓ Industrial Systems -----6%-8%
✓ Building Envelope-----3%-5%
✓ CHP Systems and Renewable Energy -----4%-6%
✓ Fuel Supply and Pricing -----2%-4%
✓ Building Automation and Control Systems -----7%-11%
✓ Thermal Energy Storage Systems -----2%-4%
✓ Lighting Systems -----6%-8%
✓ Boiler and Steam Systems -----3%-5%
✓ Maintenance and Commissioning -----8%-12%
✓ Energy Savings Performance Contracting and Measurement & Verification -----3%-5%

CERTIFICATION CEM EXAMS



AEE certification programs require candidates to take and pass an exam. Exam questions are aligned to each program's body of knowledge.

An AEE certification can help define your status as an energy professional and help progress your career. Once complete, make sure you maintain your account and keep track of your certification requirements for renewal.

The exam will be open book, last four hours, and have 130 questions to answer. Of the 130 questions, 120 are scored and 10 randomly located questions are trial questions being prepared for possible use on future exams. The 10 trial questions do not count toward the examinee's score. The trial questions are randomly located and are not identified.

The examination questions are based on the Body of Knowledge listed above. Because of the diversity of background and experience of Energy Managers, the examination has 15 different subject sections, all of which are included in the exam

RESOURCES



<https://www.aeecenter.org/aee-training/training-programs/>

<https://www.usgbc.org/resources>

<https://knowledgelab.beyondsmartcities.in/>

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**THE WORLD'S 1ST GREEN TECHNOLOGY
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