

CERTIFIED BUILDING ENERGY MANAGEMENT PROFESSIONAL (BEM)



GENTEX[®]
TRAINING CENTER



Introduction

Rising energy costs and sustainability requirements push facilities teams to manage building performance more strategically. The Certified Building Energy Management Professional (BEM) Training Course equips participants with the technical knowledge needed to monitor, analyze, and reduce energy consumption across commercial and industrial buildings. Furthermore, this course covers energy audits, building management systems, retrofitting strategies, and regulatory compliance standards relevant to modern facilities. As a result, participants learn to cut operational costs, improve building performance, and support organizational sustainability goals. Gentex Training Center designed this program to strengthen technical expertise in energy management and building efficiency practices.

Certified Building Energy Management Professional (BEM) Course Objectives

- Conduct energy audits using ASHRAE Level 1, 2, and 3 standards
- Analyze building energy consumption using benchmarking tools
- Apply building management systems (BMS) for energy monitoring
- Identify retrofitting opportunities using life-cycle cost analysis
- Apply LEED and ISO 50001 energy management frameworks
- Evaluate HVAC system performance and optimization strategies
- Use energy modeling software to forecast consumption patterns
- Apply renewable energy integration strategies for buildings
- Interpret utility bills and energy performance indicators
- Develop energy action plans aligned with sustainability targets

Course Methodology



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- Interactive lectures on energy management standards and frameworks
- Hands-on exercises using energy audit checklists
- Case studies analyzing successful building retrofits
- Group workshops on energy benchmarking techniques
- Practical use of building management system dashboards
- Self-assessment tools to identify energy-saving opportunities
- Trainer feedback on applied energy management plans

Who Should Take This Course

- Facilities managers and building operations professionals
- Energy engineers and sustainability coordinators
- Maintenance managers overseeing building systems
- HVAC and mechanical engineers
- Property managers responsible for operational efficiency
- Environmental and compliance officers
- Professionals pursuing building energy management expertise

Certified Building Energy Management Professional (BEM) Course Outlines

Day 1: Foundations of Building Energy Management

- Principles of energy management in buildings
- Understanding energy consumption patterns
- Overview of ISO 50001 energy management systems
- Introduction to ASHRAE energy audit levels



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- Identifying key energy performance indicators
- Reviewing utility bills and consumption data
- Setting energy management objectives

Day 2: Energy Audits and Benchmarking

- Conducting ASHRAE Level 1 walkthrough audits
- Performing ASHRAE Level 2 energy surveys
- Applying energy benchmarking tools and databases
- Identifying energy waste and inefficiencies
- Documenting audit findings and recommendations
- Prioritizing energy-saving opportunities
- Preparing energy audit reports

Day 3: Building Systems and HVAC Optimization

- Evaluating HVAC system performance
- Applying building management systems (BMS) for monitoring
- Optimizing lighting and control systems
- Assessing building envelope efficiency
- Identifying equipment upgrade opportunities
- Applying fault detection and diagnostics tools
- Reviewing system performance data

Day 4: Retrofitting and Renewable Integration

- Applying life-cycle cost analysis for retrofits
- Evaluating renewable energy integration options



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- Applying LEED energy efficiency criteria
- Assessing solar and other renewable technologies
- Calculating return on investment for upgrades
- Reviewing case studies of successful retrofits
- Prioritizing retrofit projects by impact

Day 5: Energy Action Planning and Compliance

- Developing comprehensive energy action plans
- Aligning plans with sustainability targets
- Applying regulatory compliance requirements
- Using energy modeling software for forecasting
- Communicating energy performance to stakeholders
- Monitoring and reporting on energy progress
- Building a continuous improvement strategy

Conclusion

By successfully completing the Certified Building Energy Management Professional (BEM) Training Course, participants will have acquired practical skills in energy audits, building system optimization, retrofitting analysis, and compliance planning. Furthermore, attendees will understand how to apply recognized standards such as ASHRAE and ISO 50001 to improve building performance. As a result, participants leave equipped to reduce energy costs, support sustainability goals, and strengthen facility operations. Gentex Training Center remains committed to developing professionals who manage building energy with technical precision and strategic insight.





FAQs

Q1 What is the "Certified Building Energy Management Professional (BEM)" course about?

This course teaches professionals how to monitor, analyze, and reduce energy consumption in buildings. It covers energy audits, building management systems, retrofitting strategies, and compliance standards, helping participants improve building performance and support organizational sustainability goals.

Q2 What are the key benefits of the "Certified Building Energy Management Professional (BEM)" course?

Participants gain reduced operational costs, improved building performance, and stronger sustainability outcomes. Additionally, the course strengthens compliance with energy regulations, supports data-driven decision-making, and helps professionals identify high-impact energy-saving opportunities.

Q3 What skills will I gain from the "Certified Building Energy Management Professional (BEM)" course?

Participants develop energy auditing, building system optimization, retrofitting analysis, and energy action planning skills. These abilities help professionals identify inefficiencies and implement measurable improvements in building energy performance.



Q4 What tools, methods, or standards are covered in the "Certified Building Energy Management Professional (BEM)" course?

The course covers ASHRAE energy audit levels, ISO 50001 energy management systems, LEED efficiency criteria, and building management systems (BMS). Energy modeling software and benchmarking tools reinforce practical application of these standards.

Q5 How is the "Certified Building Energy Management Professional (BEM)" course applied in real-world practice?

Participants apply energy management techniques when conducting building audits, optimizing HVAC systems, and planning retrofits. As a result, professionals reduce energy costs, improve building performance, and support long-term sustainability strategies within their organizations.