





Overview of the Association of Energy Engineers (AEE)

The Association of Energy Engineers (AEE), founded in 1977 by Albert Thumann, is driven by a vision of advancing energy efficiency and fostering a community dedicated to sustainable energy practices.

AEE currently has a network of over 17,000 members and 32,000 certified individuals, in over 125 countries. Joining AEE connects you with a worldwide community, offering access to globally recognized certifications, cutting-edge training, and engaging events.

AEE certifications help you unlock new opportunities and demonstrate your expertise as a sustainable energy professional. AEE's globally recognized credentials validate your skills and knowledge in energy management, renewable energy, and sustainability. Whether you're advancing your career or seeking new challenges, AEE certifications set you apart in the competitive energy industry. AEE Training programs support industry needs and workforce development by covering a wide variety of functional areas, focus on a discipline, or narrow to a specific topic. Some areas include:

- Energy Efficiency
- Energy Management
- Energy Auditing
- Measurement & Verification Facility Management
- Building Commissioning and Automation





- Alternative & Renewable Energy
- Sustainable Development
- Carbon Accounting
- Energy Services & Commissioning
- Energy Procurement
- **Energy Supply & Demand**

Importance of Energy Management

Energy efficiency is one of the most economical and fastest ways to make dramatic reductions in Green House Gas (GHG) Emissions and help in the fight against climate change. Energy efficiency primarily reduces the demand and use of valuable resources, improves sustainability, and for many businesses it can be a source of cost reduction. Almost every area of our lives can be improved by becoming more energy efficient. Being energy efficient is not about restriction, but about becoming smarter and using energy more wisely. Therefore, it empowers and instigates behavioral change. It also helps improve productivity, drives technological innovation, creates jobs, and stimulates economic growth.

What Does a Certified Energy Manager (CEM) Do?

The Certified Energy Manager® - CEM® is one of the most globally respected certifications in the field of energy efficiency and energy management. This certification helps you gain industry and peer recognition, bring value to your organization and propel your career forward. A Certified Energy Manager (CEM) is an individual who helps to develop and implement energy management strategies for organizations to reduce energy and operational costs, leading to improved profits, increased occupant satisfaction, reductions in overall carbon footprint and helping organizations achieve their environmental, social and governance (ESG) goals.





Certified Energy Manager (CEM) Training:





Training program: Four (4) training days and one (1) day to take the online 4-hour exam chosen by the participants at their convenience.

Basic Skills Required: The CEM® training course is at a level which assumes the participant has basic problem-solving skills, including use of a scientific hand calculator and the ability to use basic algebra.



CEM Course Outline:

- Importance of Energy Management
- Energy Basics
- International Codes and Standards
- High Performance Green Buildings
- Energy Accounting and Economics
- Energy Audits and Instrumentation
- Lighting Systems
- Electrical Power Systems
- Motors and Drives
- HVAC Systems
- Building Envelope





- Combined Heat and Power (CHP) Systems and Renewable Energy
- Industrial Systems
- Fuel Supply and Pricing
- Building Automation and Control Systems
- Thermal Energy Storage Systems
- Boiler and Steam Systems
- Maintenance and Commissioning
- Energy Savings Performance Contracting
- Energy Savings Measurement & Verification

Dates: 19th, 26th October and 2nd, 9th November 2024

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