



Certified Industrial Energy Professional

An Industry Recognized Certification for Industrial Energy Management Professionals

Who are Certified Industrial Energy Professionals?

- Are you a technical or operations engineer responsible for optimizing the system's performance of industrial equipment, such as instrumentation, controls, pumps, motors, drives and compressed air systems?
- Are you a consultant that specializes in the energy efficiency of plant, manufacturing or industrial facilities?
- Are you an industrial plant manager responsible for energy or utility costs for your facility?

Industrial energy professionals ensure that industrial plants and manufacturing facilities are operated and maintained to the highest performance while using the lowest amount of energy possible. Using proven energy management systems and audit processes, such as ISO50001 and ISO50002 they help identify inefficiencies and define energy strategies for reducing costs. As technical experts, they understand the varied equipment and systems used throughout industry and can leverage this knowledge to improve overall systems performance.



What does the Certified Industrial Energy Professional (CIEP) Certification Program offer?

This program helps educate and qualify individuals involved in energy management for industrial applications or manufacturing facilities. By obtaining the CIEP certification, candidates gain industry and peer recognition by demonstrating their understanding of core principles, practices, and technologies. The program also raises the professional standards, both technical and ethical, of those engaged in the industry.

What is the bottom line for me or my company?

Gaining a wide-reaching and industry-recognized certification is always a personal and financial investment. Individuals report career improvements in the form of salary and responsibility increases. The certification shows individuals hold a fundamental understanding of the profession and a commitment to the highest standards of quality. Companies, organizations, and consultants with a CIEP on-staff often see a higher affinity with their customers because CIEPs understand their customer's requirements and are trusted subject matter experts.

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What functional areas does the CIEP Certification Program cover?

The certification program requires fundamental knowledge across several core principles and practices specific to industrial energy management. These include:

- Introduction to Industrial Energy Management
- Control Systems
- Audit Tools
- Industrial Water Systems
- Heat Exchange Systems
- Industrial Refrigeration Systems
- Furnaces, Boilers, and Fired Equipment
- Steam Systems
- Turbine Systems
- Motor Systems
- Pumps Systems
- Fan Systems
- Compressed Air Systems

How do I become eligible for AEE's CIEP certification?

Every certification program offered by AEE is defined by strict standards to ensure the program maintains its industry-wide recognition and credibility. To that end, AEE stipulates three criteria that all CIEP candidates must meet. Firstly, applicants must have relevant experience or educational credentials (see below).

Experience & Education

Applicants must meet one of the following eligibility criteria:

- Hold a related* bachelor's degree OR Professional Engineer (PE) OR Registered Architect (RA) and 2+ years related* work experience.
- Hold a 4-year unrelated Bachelor's degree and 3+ years related* work experience.
- Hold a 2-year associate degree and 4+ years related* work experience.
- Have 6+ years related* work experience
- Be a current Certified Energy Manager (CEM®).

*Related degree in technology, plant engineering, industrial engineering, mechanical/electrical engineering and related experience in manufacturing or industrial facilities or plant facilities operations.

Secondly, candidates must undergo a defined training program that aligns with the fundamental knowledge base of the program, and the principles and practices of the industry as a whole. Thirdly, candidates must pass the associated exam to demonstrate their technical knowledge, proficiency, and abilities in the area of industrial energy management.

Why would I want to take a training program when I believe I already have the knowledge and experience required to pass an exam?

A CIEP training program provides more value than only preparing individuals to take the associated exam. It brings all candidates to a base level of understanding for improving energy efficiency in industrial applications or manufacturing facilities.

For those entrenched in their normal daily activities, attending a training program, held away from the office, in a classroom environment can be a catalyst for improvement and change. For many, the chance to network, connect, and learn from other like-minded individuals is incredibly valuable.

I obtained my CIEP Certification, where do I go next?

The CIEP 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 on aeecenter.org. You can also keep up to date on energy management practices and technologies by joining your local AEE Chapter. Energy professionals continuously tell us that they stay ahead in the industry by getting involved in their local community.

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