The Association of Energy Engineers®

Certification Information
Accelerate Your Career Opportunities

“ANSI-accredited certification programs meeting the U.S. DOE, Better Buildings Workforce Guidelines”
The Association of Energy Engineers (AEE) is your source for information and networking in the dynamic fields of energy engineering and energy management, renewable and alternative energy, power generation, energy services, sustainability, and all related areas. As a growing professional association, AEE’s overall strength is augmented by its strong membership base of over 18,000 professionals in 105 countries and its widely recognized energy certification programs. Its network of over 90 local chapters located throughout the U.S. and abroad meet regularly to discuss issues of regional importance.

The Association of Energy Engineers (AEE) has awarded certification to more than 30,000 professionals, thus enabling them to receive special recognition for their expertise in a variety of specialized areas of the energy, power, sustainable development and green facilities industries.

“We are AEE membership and certifications enhance your professional status within the industry and help you gain a competitive edge on requests for proposals.”

Find out more at www.aeecenter.org

Certification Statistics
The 2015 AEE member survey, based on 3,000 responses, indicates:

86% of energy professionals surveyed responded that having an AEE certification has helped or will help their career

85% of energy professionals surveyed responded that their company has benefited since they had received their certification

61% of energy professionals surveyed indicated that they are receiving higher professional visibility since receiving their AEE certification
Become AEE Certified

Distinguish Yourself
The Association of Energy Engineers (AEE) was the first organization to pioneer energy certification programs. AEE Certification Programs distinguish you — No other organization can match the AEE Certified Energy Manager® (CEM®) and Certified Energy Auditor® (CEA) credentials.

Industry Recognition
AEE has implemented energy certification programs for over 30 years. They are widely recognized by a growing number of international government agencies, Fortune 1000 companies, corporations, utilities, and energy service companies. Our continuing education units can be used for Professional Engineer License Renewal and Certification Renewal.

Widely Available
AEE offers preparatory training programs in a variety of formats – including live, real-time online, 24/7 online and self-study – to meet your specific requirements. In addition, certification examinations may be taken at the end of a live seminar or at a network of over 160 remote testing centers.

In the U.S.
AEE’s certification programs are recognized by federal government agencies, such as the U.S. Department of Energy, State Department and the U.S. Agency for International Development.

- The Certified Energy Manager (CEM) and Certified Energy Auditor (CEA) certifications are a U.S. DOE, Better Buildings Workforce Guidelines Recognized Program
- AEE Certifications are recognized for the performance of commissioning and auditing services at the state and local level. For example, under Local Law 87 in New York City and through the Commercial Buildings Energy Performance Ordinance for San Francisco.
- AEE is an Approved Training Provider under the U.S. Green Building Council Education Provider Program for GBCI’s Mandatory Credential Maintenance Program (CMP)
- AEE is a registered Provider within the American Institute of Architects (AIA) Continuing Education System (CES)
- AEE is an approved provider for PE license renewal in Florida, New York, and North Carolina and is recognized as a nonprofit training provider in other states requiring Professional Development Hours (PDHs)

In Europe
AEE’s international CEM and CEA certifications are recognized under the EU Energy Efficiency Directive, UK’s Energy Savings Opportunity Scheme (ESOS) and Ireland’s regulation SI426 to implement Article 8 (4-6) of the EU Energy Efficiency Directive (2012/27/EU).

In the Middle East
Regulations for accreditation and licensing are now in place in United Arab Emirates and the Kingdom of Saudi Arabia for the CEM, CEA and CMVP.

For complete details on certification go to: www.aeecenter.org/certification
The Certified Energy Manager® (CEM®), AEE’s flagship certification, has over 16,000 certified individuals. It was established in 1981 to meet the growing needs of individuals and organizations wishing to advance their positions in the energy efficiency field. The Certified Energy Manager is a registered Service Mark and CEM is a registered trademark with the United States Trademark and Patent Office. The Certified Energy Manager certification program is accredited under ANSI/ISO/IEC Standard 17024 for Personnel Certification Bodies and is a U.S. Department of Energy Better Buildings Workforce Guidelines Recognized Program. Individuals who achieve this certification have distinguished themselves as earning the highest level of competency in energy management.

Earn the Certified Energy Manager (CEM) Certification

The CEM provides a recognizable affirmation of demonstrated competencies in a wide range of energy-related principles and practices. Professionals seeking the CEM designation must meet a board-approved list of pre-qualifications in experience in the field and/or prior educational achievements. This certification helps individuals distinguish themselves and obtain their career objectives.

The CEM is nearly universally accepted and recognized by a cross-section of institutions both public and private. CEMs are now found engaged in all the various aspects of the energy industry, including: major multi-national corporations; utilities; controls and performance contractors; federal, state, and local governments; universities; hospitals; regional school districts; local entrepreneurs, as well as consultants in the energy field. The CEM designation and program is widely accepted and respected both in the U.S. and internationally. The CEM Certification is recognized by the U.S. Department of Energy, FEMP and the U.S. Agency for International Development (USAID). CEM training and certification examination are offered in multiple languages including English, Mandarin, Spanish, French and Arabic.

“The CEM certification is accredited under the ANSI/ISO/IEC Standard 17024 for Personnel Certification Bodies”
Opportunities for Certified Energy Managers

▶ There is a collection of electric and gas utilities, municipalities, cities, colleges, local and statewide school districts, as well as nearly every ESCO and an enormous number of private employers who seek CEM qualified professionals.

▶ Many government organizations require a Certified Energy Manager, as in Virginia, which requires that any agency with an annual budget of $1 million or more have a CEM on staff.

▶ Recently, the Air National Guard selected the CEM program for continuing education of its energy and facility engineers throughout the United States.

Another important aspect of the CEM comes about as being “highly suggested” or “recommended” and no small number of organizations consider it essential for advancement. Some of these include: Southern California Edison, Duke Energy, the U.S. Postal Service, Ford Motor, NYSERDA, TAC America, PEPCO, Ameresco, Macy’s, Toyota Motor Company, and many other organizations.

Many companies and government agencies have required the CEM in their “Request for Proposals” or in auditing opportunities. Recently, the utility company, the National Grid, which is one of the largest investor-owned energy companies in the world, offered an energy-efficiency engineering study whereby it will finance 50% (up to $10,000) of the cost incurred as part of an approved energy-efficiency engineering study. “The study must be completed by a Certified Energy Manager (CEM) or a professional engineer (PE).” In the U.S., the National Grid serves nearly 5 million electric and 3.4 million gas customers in Massachusetts, New Hampshire, New York, and Rhode Island.

Employment and Consulting Opportunities

With fierce competition and opportunities for obtaining employment in the energy industry, professionals might be astounded to know how many employers already require CEM certification as a condition for hiring, including Johnson Controls, Siemens Building Technologies, Honeywell-Novar, General Motors, U.S. General Services Administration, U.S. Department of Defense, Sain Engineering Associates, Trane Corporation, Florida Power & Light, Southern California Edison, and the University of Minnesota.

A Certification In Demand

The CEM designation is an energy industry wide accepted standard to help evaluate a professional’s expertise in the field. Several states, as well as federal government agencies, require a certified professional such as the Certified Energy Manager, Certified Sustainable Development Professional, Certified Carbon Reduction Professional, Certified Energy Auditor, and Certified GeoExchange Designer.
The Certified Energy Auditor® (CEA®) has certified over 2,500 individuals. It was established in 2009 to meet the growing needs of individuals and organizations wishing to advance their positions in the energy auditing field. The Certified Energy Auditor certification program is accredited under ANSI/ISO/IEC Standard 17024 for Personnel Certification Bodies as well as recognized by DOE under the Better Building Workforce Guidelines. Individuals who achieve this certification have distinguished themselves as earning the highest level of competency in energy auditing.

Earn the Certified Energy Auditor (CEA) Certification

The CEA provides a recognizable affirmation of demonstrated competencies in a wide range of energy auditing-related principles and practices. Professionals seeking the CEA designation must meet a board-approved list of pre-qualifications in experience in the field and/or prior educational achievements. This certification helps individuals distinguish themselves and obtain their career objectives. The CEA is nearly universally accepted and recognized by a cross-section of institutions both public and private. CEAs are now found engaged in all the various aspects of the energy industry, including: major multi-national corporations; utilities; controls and performance contractors; federal, state, and local governments; universities; hospitals; regional school districts; local entrepreneurs, as well as consultants in the energy field.

The CEA designation and program is widely accepted and respected both in the U.S. and internationally. The CEA training and exam are conducted in English, French, Mandarin, and Russian.

"The CEA certification is accredited under the ANSI/ISO/IEC Standard 17024 for Personnel Certification Bodies"

To find out more at www.aeecenter.org/certification
Industry Certifications

CERTIFIED ENERGY MANAGER

ENERGY MANAGER IN TRAINING

Since 1981, AEE's flagship certification program has emphasized the technical aspects of what energy managers in government and the private sector need to know. The CEM represents a “Who’s Who” in energy management. More than 16,000 individuals hold the status of Certified Energy Manager®. See CEM program highlights on the center pages of this brochure.

ENERGY EFFICIENCY PRACTITIONER

The EEP program will award special recognition to new entrants into the energy efficiency field who have demonstrated their understanding of basic energy management and energy efficiency principles. The program provides industry & peer recognition and serves as a fundamental building block for additional individual professional development such as obtaining the Certified Energy Manager (CEM) or Business Energy Professional (BEP) designation.

CERTIFIED MEASUREMENT & VERIFICATION PROFESSIONAL

CERTIFIED MEASUREMENT & VERIFICATION PROFESSIONAL IN TRAINING

The CMVP program was established by the Association of Energy Engineers in conjunction with Efficiency Valuation Organization (EVO), with the dual purpose of recognizing the most qualified professionals in this growing area of the energy industry, as well as raising overall professional standards within the measurement and verification field.

CERTIFIED WATER EFFICIENCY PROFESSIONAL

The CWEP program is designed to help educate and qualify individuals in the water/energy management field on best practices for improving water efficiency. By obtaining the CWEP Certification, candidates will gain industry and peer recognition by demonstrating their understanding of technical and operational water management principles.

CERTIFIED POWER QUALITY PROFESSIONAL

AEE’s CPQ program demonstrates the interactions between the power source and sensitive loads in the field of power quality and reliability.

CERTIFIED ENERGY AUDITOR

CERTIFIED ENERGY AUDITOR IN TRAINING

This certification was developed and added to the impressive portfolio of certifications offered by AEE. Rising energy costs and inefficiency in plants and buildings is continually driving the need for trained and experienced energy auditors. CEA certification identifies professionals having the required knowledge and experience needed to succeed in the field of energy auditing. See CEA program highlights on the center pages of this brochure.

CERTIFIED BUILDING COMMISSIONING PROFESSIONAL

The CBCP program was developed with the dual purpose of recognizing the most highly qualified professionals in this most rapidly expanding area within the industry, while raising overall professional standards in the building commissioning field.

CERTIFIED GEOEXCHANGE DESIGNER

CERTIFIED GEOEXCHANGE DESIGNER IN TRAINING

This program is designed to recognize professionals who have demonstrated high levels of experience, competence, proficiency, and ethical fitness in applying the principles and practices of geothermal heat pump design and related disciplines. CGD certification is granted by AEE. Associated training programs are presented by the International Ground Source Heat Pump Association (IGSHPA).

CERTIFIED DEMAND SIDE MANAGER

The Certified Demand Side Manager program is designed to provide recognition for professionals who have distinguished themselves as leaders in the demand side management and demand response field.

CERTIFIED ENERGY PROCUREMENT PROFESSIONAL

The CEP program covers the acquisition of both electricity and natural gas from both the purchasing/procurement and selling/marketing perspectives.

CERTIFIED BUILDING ENERGY SIMULATION ANALYST

AEE’s BESA certification is designed to recognize individuals with special expertise and experience in the area of utilizing building energy simulation software to assess a facility’s energy performance.

“AEE offers diverse credentials tailored to your interest and expertise.”

For more information on any of AEE’s certifications, please visit: www.aeecenter.org/certification
Industry Certifications

CERTIFIED CARBON REDUCTION MANAGER CRM

The CRM program is designed to recognize those professionals who have distinguished themselves as leaders in the growing field of carbon reduction. The designation CRM identifies individuals who have demonstrated high levels of technical expertise in energy management and environmental practices.

CERTIFIED SUSTAINABLE DEVELOPMENT PROFESSIONAL CSDP

The Certified Sustainable Development Professional program is designed to provide recognition for professionals who have distinguished themselves as leaders in the sustainable development field. The designation CSDP identifies individuals who have demonstrated high levels of technical expertise in energy management and environmental practices.

CERTIFIED RESIDENTIAL ENERGY AUDITOR REA

Rising energy costs and inefficiencies in homes and residential structures are increasingly driving the need for qualified residential energy auditors. In response to this demand, AEE now offers the REA certification program, which recognizes professionals with energy auditing expertise and experience specific to assessing residential energy use.

BUILDING ENERGY & SUSTAINABILITY TECHNICIAN BEST

Companies spend a tremendous amount of money on energy every year. The Certified Building & Sustainability Technician (BEST) certification was developed with the objective to recognize building operators, maintenance personnel, and technicians who utilize the “best practices” for improving energy efficiency through enhanced operations and maintenance.

DISTRIBUTED GENERATION CERTIFIED PROFESSIONAL DGCP

The DGCP program identifies individuals who have demonstrated high levels of experience, competence, proficiency, and ethical fitness, bringing to their professional activities the full scope of knowledge essential to the effective development and management of today’s distributed generation projects.

CERTIFIED INDUSTRIAL ENERGY PROFESSIONAL CIEP

AEE’s CIEP certification program identifies those having the skills, knowledge and experience necessary to effectively manage industrial and manufacturing energy costs. The Industrial Energy Strategies for Reducing Costs & Optimizing Systems Performance seminar provides preparator training for those seeking CIEP certification.

CERTIFIED PERFORMANCE CONTRACTING & FUNDING PROFESSIONAL PCF

The PCF certification is designed to improve the practice of performance contracting and energy project funding and financing by encouraging professionals to partake in a continuing education program of professional development.

CERTIFIED EXISTING BUILDING COMMISSIONING PROFESSIONAL EBCP

AEE’s EBCP certification provides recognition for qualified professionals with expertise in the area of retrofitting existing buildings into more sustainable, efficient facilities while meeting existing building commissioning criteria.

CERTIFIED LIGHTING EFFICIENCY PROFESSIONAL CLEP

The Certified Lighting Efficiency Professional program was developed to identify specialists in lighting efficiency. This program is also recognized as meeting the certification requirements of the EPA Green Lights’ Lighting Management Company Ally Program.

CERTIFIED RENEWABLE ENERGY PROFESSIONAL REP

The REP certification is designed to recognize the expertise and experience of professionals involved in the specification and application of renewable and alternative energy technologies, assessment of renewable energy projects, and development of achievable low-carbon and sustainability goals for organizations.

CERTIFIED BUSINESS ENERGY PROFESSIONAL BEP

The BEP program awards special recognition to those business/marketing and energy professionals who have demonstrated a high level of competence and ethical fitness for business/marketing and energy management related disciplines, as well as laws governing and affecting energy professionals.

In Training Option As Pathway to Certification

* In training programs (EMIT, CEAIT, CGDIT, CLEPIT, BEPIT and CMVPIT) are designed for talented professionals who pass the exams but do not yet have the necessary credentials. If these individuals gain the necessary credentials within three to six years of receiving the “In Training” designation, documentation may be submitted to AEE and certification will be awarded without additional testing or fees. Check the individual program for more information.