



Energy Efficiency Practitioners™

An Entry-Level Certification for Energy Efficiency Professionals

CERTIFICATION SCHEME **1.0**

Version No: 1.1
Effective Date: 4/29/2024



Scope

Energy Efficiency Practitioners™ are entry level professionals who are interested in a career path in the energy industry or current professionals wishing to transition to the energy sector. If you work in a commercial, government, institutional, or industrial building, the Certified Energy Efficiency Practitioner (EEP) may be right for you.



Eligibility Requirements for Competence

Individuals applying for the EEP™ Certification Examination must attend an approved preparatory training course, meet the following education, and experience requirements, and complete a certification application.

Education and Experience Requirements

Education and Experience
2-year Technical degree or 4-year degree from an accredited university or college
An individual who is currently employed in a company and practicing energy efficiency, energy management, or operations and maintenance of a building or facility
An individual who has at least 1 year of experience in energy efficiency, energy management, or operations and maintenance of a building or facility
An individual actively participating in an energy, sustainability operations or maintenance education program
Military Veteran

Examination Requirements for Competence

To earn the EEP™ Certification, candidates must pass the certification examination. The competency requirements assessed are the following:

Certified Energy Efficiency Practitioner - Examination Blueprint

Body of Knowledge / Duties and Tasks (% Exam)	
1	Introduction to Energy Production, Transmission and Distribution (8–12%)
101	Electric energy generation, transmission, & distribution
102	Natural gas production, transmission, & distribution
103	Liquid fuels distribution
2	Building Utilities & Energy Bills (8–12%)
201	Terminology & units of measurement
202	Energy vs power
203	Electricity & gas rate structures
204	Power factor
205	Energy bill helpful analysis
206	3rd party energy
3	Economics (5–7%)
301	Financial decision criteria
302	Simple payback calculations
303	Financial Alternatives
304	Societal benefits, additional capital resources, incentives
4	Energy Auditing and Instrumentation (6–10%)
401	ASHRAE audit levels I, II, III
402	Types of audits & funding
403	Benefits of benchmarking
404	Energy audit instrumentation uses & safety

Body of Knowledge / Duties and Tasks (% Exam)	
5	Electrical Systems (6–10%)
501	Basics of electricity
502	Electricity flow throughout a building
503	Power quality
6	Motors & Drives (6–10%)
601	Power factor
602	Types of motors
603	Motor speed (operation efficiency)
604	Fan / affinity loads (variable speed drive)
605	Variable volume options
7	Lighting (6–10%)
701	Basics & Terminology
702	Lighting technology comparisons
703	Maintenance and controls
8	Thermal Energy Systems (6–10%)
801	Heat transfer
802	Energy loss reduction (strategy analysis)
803	Building related heat transfer
804	Equipment related heat transfer
9	Building Automation Systems (6–10%)
901	Control systems (terminology & functions)
902	BAS functions
903	Potential cost savings opportunities
10	Mechanical Systems & HVAC (8–12%)
1001	Equipment types & uses overview, heating & cooling systems
1002	Boilers, chillers, cooling towers
1003	Ventilation air
1004	Vapor compression system / heat pumps
1005	Systems maintenance
1006	Energy & costs savings opportunities

Body of Knowledge / Duties and Tasks (% Exam)	
11	Maintenance (5–7%)
1101	Maintenance technology & practices
1102	Water & sewer conservation & maintenance
1103	Compressed air & steam leaks
1104	Boiler scale buildup
1105	Motor maintenance
12	Renewable Energy / Carbon Reduction (8–12%)
1201	Definition of renewable energy / types
1202	Renewable Energy Credits “RECs”
1203	Net metering
1204	Utility scale
1205	Behind-the-meter, onsite generation
1206	Carbon reduction / CO ₂ Emissions
1207	Transportation

Examination Specifications

The examination will be 2-hours, open book / open notes and follow the specifications outlined in the examination blueprint. It will include 65 multiple-choice graded questions in accordance with the percent of exam range for each task.

Code of Ethics

Codes of Practice are found in the Code of Ethics for Certified Professionals V1.1 dated November 21, 2019, available at www.aeecenter.org/CodeofEthics.



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Recertification Requirements

An EEP™ must accumulate ten professional credits every three years and submit a completed Renewal Form to AEE to remain certified. Professional credits for recertification can be accumulated at any time within the three-year period. Detailed explanation of activities applicable as credits for certification renewal available at www.aeecenter.org/certification/renewal.

Activities for EEP™ Renewal Credits

Continued employment in energy auditing activities:

- **1 credit per year**

Membership in a professional engineering society

- **1 credit per year**

Offices held in a professional engineering society:

- **1 credit per year**

Continuing education (CEU's) / professional activities (seminars or conferences) including but not limited to energy efficiency, energy management, operations or maintenance of a building or facility

- **2 credits per CEU, college credit hour or 10 contract hours for training**

Awards presented and/or papers published involving energy, operations, or maintenance:

- **1 credit per: one energy-related presentation**
- **2 credits per: one energy-related paper**
- **2 credits per: one energy-related individual award**

Certified Professionals who do not acquire sufficient EEP maintenance points to be recertified on the recertification date will no longer have an active certification and be notified in writing of suspension from using the EEP designation. They will also no longer be listed as an EEP in any AEE publication. A lapsed EEP must resubmit to the certification process and successfully meet the criteria for certification by personal data information and examination. Another option for certified professionals is to acquire make-up points at a cumulative total equal to 3.5 per year for every year since date of expiration. This option is available one-time only. Certifications that have lapsed more than three renewal cycles must retake the EEP exam.

An EEP, upon retiring and/or and reaching the age of sixty-five, can be designated as "EEP – Retired," will no longer be required to pay renewal fees, and will no longer be listed in our directory of actively practicing EEPs. No further reporting is necessary except to notify AEE of meeting the age requirement by sending a copy of the retired EEP's Driver's License.

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