



Training and Certification of Energy Professionals in Sub-Saharan Africa

AEE is global,
we bring it local.



ECSA CPD
4 credits

AEE CPC
4.8 credits

CEA



Certified Energy Auditor (CEA®)

The Certified Energy Auditor (CEA®) program raises the standards in energy auditing for professionals performing auditing services at industrial plants and buildings, and improves the practice of energy auditors through a continuing education programme.

CEA® is an international certification program for professionals developed by the US-based Association of Energy Engineers (AEE). This 4-day training course, followed by a voluntary examination on the 5th day, offers a comprehensive learning forum for those who want to be able to provide energy auditing services in industrial plants and buildings. Passing the examination could lead to international certification with the AEE.

TRAINING PROGRAMME OUTLINE

- Energy auditing methodology
- Auditing tools
- Building envelope
- Building systems
- Controls
- Water auditing
- Energy audit instrumentation
- Economic analysis
- Boilers and steam systems
- Reviewing auditing reports
- HVAC
- Lighting

COURSE OUTCOMES

On completion of the CEA® course you will be able to perform energy auditing tasks for any resources according to best practice standards and international norms.

DELEGATE PROFILE

- Persons with energy auditing and energy management experience who have the need to obtain a recognised qualification within the energy engineering career path.
- For energy auditors, architects, built environment graduates, engineering graduates, environmental graduates the CEA® will open new doors into the fastest growing industry in the world.
- Need for recognition as a green building specialist internationally.
- For recognition as a professional who stays up to date on the latest developments in the energy auditing industry by participating in continued energy education that is internationally recognised.
- Persons that need to find ways of saving energy and resources in any industries.

BASIC SKILLS REQUIRED

The CEA® training course is at a level which assumes the delegate has

basic problem-solving skills, including quick and accurate use of a financial hand calculator, the ability to use basic algebra and to set up problem solution expressions and calculations from a written problem statement.

EXAMINATION

The examination and certification process is optional and you may take the course without it as well. The examination is typically held on the morning of day 5, or any other AEE examination day. Examination questions are based on concepts and experiences contained within this program material. The exam, which must be completed within 4-hours, is open book, with a mixture of multiple choice and true/false questions.

This is a voluntary exam and delegates must book for the examination and submit a certification application form before taking the exam and the course. The examination may only be taken after completion of the prescribed AEE CEA® training at a licensed AEE training provider.

Note that exam results will only be issued once candidate is in full standing with AEPEA.

ELIGIBILITY FOR CERTIFICATION

The pre-requisites to qualify for the certification process have been designed to take into account the possible diversity of education and practical experience an individual may have. However, each CEA® candidate must attend the full CEA® training program, pass the written CEA® 4-hour open book examination with 70%, and meet one of the following criteria:

Education and Work Experience

- 4-year engineering/architectural degree OR Professional Engineer (PE/PrEng) OR Registered Architect (RA) AND 3+ years related* experience
- 4-year unrelated degree; BTech AND 4+ years related* experience
- 2-year associate degree; Diploma AND 5+ years related* experience
- Current Status of Certified Energy Manager (CEM®) AND 3+ years related* experience
- No qualification AND 10+ years related* experience
- Re-certification is required every 3 years subject to participation in the AEE continuing education program (CEP).

**Related experience in energy auditing and/or participating in a team doing energy assessments.*

If you do not meet one of the eligibility criteria above, you can still apply for an in-training certification, CEA-IT. In order to gain the in-training certification, you must attend a CEA preparatory training seminar or obtain a degree from an approved training provider, submit the CEA-IT certification application, and pass the CEA certification examination. The CEA-IT certification is valid for six years, which allows you time to meet the full CEA certification eligibility requirements.

STEPS TO CERTIFICATION

1. Register to attend the AEE training course with a licensed training provider of the AEE.

* Terms and conditions

1. First paid first served policy applies for booking security
2. Booking security requires one of the following to be received six (6) working days prior to the commencement of the course:
 - a. Full payment cleared in bank with proof of payment supplied.
 - b. A deposit of 25% with proof of payment supplied.
 - c. A purchase order for the full amount of the invoice.
3. Fees include coffee/tea/juice on arrival, mid-morning coffee/tea with pastries, mid-afternoon coffee/tea with

biscuits, and lunch. For training the fee includes the black and white text books, course fee and one year membership of the AEPEA. For examinations the fee includes the examination fee, marking fee, certification application fee, and 1 year membership of AEE for first certifications.

4. It is the responsibility of the candidate attending the course to arrange their own travel, accommodation, breakfast and dinner.
6. Policy on accounts not in good standing
 - a. The candidate in attendance at the course ultimately

2. Register to sit the AEE examination for your certification, complete the certification application and return it to the Certification Coordinator at the EnTF.
3. Attend 85% or more in-class training.
4. Pass the examination with 70% or more.
5. Your examination mark and certification application will be reviewed by the AEE African Certification Board for your applied certification.
6. Your application with African Board recommendations will be submitted to AEE's International Certification Board for approval.
7. Should you receive feedback that you may only receive 'in-training' status, you may upgrade to full certification status once you have achieved sufficient levels of experience, and as long as this is within 6 years.
8. You will receive notification for renewal on a 3 yearly basis.

RECOGNITION

Association of Energy Professionals Eastern Africa

You will gain CPD points for your professional development recognized by Engineers Board of Kenya or other relevant bodies.

Association of Energy Engineers (AEE)

4.8 credits for Continuing Professional Competency (CPC) demonstration to re-certify on another AEE certification program.

International certification with the AEE

International AEE certification will be listed in the AEE Professionals Directory on-line, once approved by AEE.

Attendance certificate

Attendance certificate will be issued to all delegates that attend the full duration of the training course. (85% or higher attendance required.)

COSTS*

**Course only fee:
Ksh100 000.00**

**Examination and Certification application fee:
Ksh60 000.00**

Examination rewrite fee: Ksh30 000.00

Course fee includes: 5 day training course, attendance certificate, black and white manual, one year AEPEA membership, lunch, teas and coffees.

Examination and Certification application fee includes: Four hour examination sitting, tea/coffee and snack, marking and proctoring fee, peer reviewed certification application and for successful candidates: AEE certificate, certification ceremony in Kenya, one year AEE membership for first certificate.

BOOKINGS

Book online at www.aepea.co.ke for your training and examination. You will receive confirmation from the Training Administrator with all the necessary arrangements and information.

About the Energy Training Foundation

The EnTF offers tailor-made training courses to fulfil the energy training needs of the industrial, commercial, mining, government, utility, building sector of Africa. EnTF is the sole approved training partner of the AEE for the Sub-Saharan region and Indian Ocean Islands, the training partner of the SAEEC and the AEPEA, is an EWSETA accredited training provider, with course accreditation for CPD registration requirements with ECSA. EnTF is the energy division of Faculty Training Institute (Pty) Ltd.

AEPEA is the second chapter of AEE and a training partner with EnTF.

Programs offered by EnTF include customised training programs, mentorship and stipend management programs, locally developed training and internationally accredited certification programs. The most popular: Certified Energy Manager (CEM), Certified Energy Auditor (CEA), Certified Measurement and Verification Professional (CMVP), Certified Water Efficiency Professional (CWEP), Certified Renewable Energy Professional (REP), Certified Business Energy Professional (BEP), Certified Carbon Reduction Manager (CRM), Fundamentals of Energy Management (FEMT), Basic Principles of Energy (BPE), Measurement and Verification Standard Training (MVST), Nelson Mandela University PV Technologies short learning program (PVTECH).