



The Energy Training Foundation (ET_F)

Training and certification of energy professionals in Southern Africa

- Sole approved training partner of the AEE for the Southern African region
- Affiliated training provider of the SAEE
- Fully accredited EWSETA training provider
- ECSA CPD credits for all training courses
- Training division of Energy Cybernetics (PTY) Ltd

ECSA CPD
4 credits

AEE CPC
4 credits

CEA

cea CERTIFIED
ENERGY
AUDITOR

Certified Energy Auditor (CEA™)

The Certified Energy Auditor (CEA™) programme 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 qualification programme for professionals developed by the US-based Association of Energy Engineers (AEE). This 3-day training course, followed by a voluntary examination on the 4th day, offers a comprehensive learning forum for those who want to be able to provide energy auditing services in industrial plant 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 CEA™ examination will be administered on the morning after the last day of the training. There is no obligation to write the CEA™ exam on the last day and delegates wishing to only attend the training may do so, delegates that wish to write at a later date may register accordingly. Pre-registration for the examination is required. Kindly also inform us beforehand of your intention to apply for certification from the AEE.

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 CEA™ training programme, pass the written CEA™ 4-hour examination with 70%, and meet one of the following criteria:

- A 4-year engineering or architectural degree, or a registered Professional Engineer (P.E.), or Registered Architect (R.A.) – within South Africa a Pr Eng, PrArch – with at least 3 years' experience in energy auditing, facility management, or experience related to energy management.
- A 4-year non-engineering degree with at least 4 years' experience in energy auditing, facility management, or experience related to energy management.
- A 3-year engineering related degree – within South Africa PrTech-Eng, PSAT – with at least 4 years' experience in energy auditing, facility management, or experience related to energy management.
- A 2-year technical degree – within South Africa PrTechniEng, PAT – with at least 5 years' experience in energy auditing, facility management or energy management.
- 10 years or more verified experience in energy auditing, facilities management, or energy management.
- The current status of Certified Energy Manager (CEM®).
- Re-certification is required every 3 years subject to participation in the AEE continuing education program (CEP).

STEPS TO CERTIFICATION

1. Attend a minimum of 85% of the CEA™ training course with an AEE approved training partner.

* Terms and conditions

1. First paid first served policy applies for booking security
2. Booking security requires the following to be received six (6) working days prior to the commencement of the course:
 - a. Full payment 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 SAAE. For examinations the fee includes the examination fee, marking fee, certification application fee, and 1
4. year membership of AEE for successful candidates.
5. It is the responsibility of the candidate attending the course to arrange their own travel, accommodation, breakfast and dinner.
6. Policy on international candidates
 - a. Invoices exclude withholding and country-specific taxes. Should these be leveraged by your country government, we reserve the right to invoice the responsible entity/person to recoup the costs.
 - b. VAT is payable for candidates attending training in South African borders, this may be claimed on departure from South Africa using the tax invoice.
7. Policy on cancellations

2. Write the CEA™ examination and attain a 70%+ pass mark.
3. Complete your CEA™ Certification application and return it to your training provider timeously.
4. The local and international CEA™ Board will review your application.
5. Your training provider will advise you of the Board's decision.
6. Should you receive feedback that you are a CEAIT (in-training) you may re-apply for certification within 3 years which provides ample time to gain more experience.

RECOGNITION

Engineering Council of South Africa (ECSA)

4 Continuing Professional Development (CPD) credits for ECSA registration.

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 may be applied for as a CEA™ on attaining a 70% pass-mark for the examination.

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:

R10 700.00 (excl VAT)

Examination and Certification application fee:

R3 200.00 (excl VAT)

Examination rewrite fee: R2 700.00 (excl VAT)

Optional full colour manual: R1 600.00 (excl VAT)

Course fee includes: 3 day training course, attendance certificate, black and white manual, one year SAAE 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, AEE certificate, certification ceremony in SA, one year AEE membership.

BOOKINGS

Logon to www.energytrainingfoundation.co.za to register online or download a manual registration form and email it to training@entf.co.za.

- a. Cancellations received within five (5) working days prior to the first day of training will carry a 25% cancellation fee. No course material will be supplied. For examinations a rescheduling fee of 25% will be leveraged.
- b. Cancellations received six (6) working days prior to the first day of training will receive a full refund.
7. Policy on accounts not in good standing
 - a. The candidate in attendance at the course ultimately remains responsible for payment of the outstanding account and providing the proof of payment thereof.
 - b. In the event that a candidate, or the candidate's organisation is not in good standing with us we reserve the right to withhold:
 - Certificates of Attendance
- Course Attendance Registers
- Issuing of ECSA CPD credits
- Examination Results
- AEE Certification Application and/or Renewal Submissions
- AEE Certification Certificates
- Listing on the AEE website
8. The Energy Training Foundation (EnTF) is a division of Energy Cybernetics (Pty) Ltd and the invoice will be made out by Energy Cybernetics.
9. Proforma invoices will be supplied, Tax Invoices will be raised on request but these are payable within 30 days of issue.
10. Right of Admission Reserved.

About the Energy Training Foundation

The EnTF offers tailor-made training courses to fulfil the energy training needs of the industrial, mining and commercial industries in Southern Africa. EnTF is an accredited EWSETA training provider, and all courses carry CPD credits for ECSA requirements. EnTF is the sole approved US-based Association of Energy Engineers (AEE) training partner for the Southern African region. The most popular standard courses are: Certified Energy Manager (CEM®), Certified Energy Auditor (CEA™), Certified Measurement and Verification Professional (CMVP®), Certified Renewable Energy Professional (REP™), Certified Water Efficiency Professional (CWEP), Fundamentals to Energy Management Training (FEMT), Energy Management System Implementation (EnMSI), Building Energy Audit Training (BEAT) and Measurement & Verification Standard Training for South Africa (MVST-sa).



The EnTF is the sole approved training partner for the Southern African region of the US-based Association of Energy Engineers (AEE) who has been promoting the scientific and educational interests of those engaged in the energy industry and developing energy engineering programmes since 1977. AEE certification qualifications are recognised world-wide in 98 countries.



The EnTF is the affiliated training provider for the AEE's chapter in South Africa, the Southern African Association for Energy Efficiency (SAEE). The SAAE has been facilitating information dissemination, networking and training in the region since 2002.



The EnTF is a fully accredited Energy and Water SETA (EWSETA) training provider in South Africa.



All EnTF courses have ECSA accreditation for CPD credits to ensure maximum benefit for professional development in the engineering industry of South Africa. ECSA CPD credits, where appropriate, may be used towards Professional Development Hours (PDH) or Continuing Education Units (CEU) for the AEE's re-certification programme to ensure Continuing Professional Competency (CPC).

For more information: • info@entf.co.za • **084 622 4770/084 011 5500** • www.entf.co.za