



ECSA CPD
3 credits

AEE CPC
4.8 credits

REP

The Energy Training Foundation (ET η TF)

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 •

REP

Certified Renewable Energy Professional (REP™)

The REP™ programme is designed to recognise 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 organisations.

REP™ is an international qualification programme for professionals, introduced in 2010, by the Association of Energy Engineers (AEE), based in the USA. AEE programs distinguish the most qualified professionals that have demonstrated high levels of experience, competence and specialised knowledge in their respective fields of certification.

The REP™ training explores the various forms of low-carbon energy sources, as well as the environmental impacts of alternative energy. Acquire the skills and theory to be able to provide credible and sustainable solutions in the renewable and alternative energy sector. The REP™ training is presented over 3 days and followed by a voluntary examination on the 4th day which could lead to international certification with the AEE.

TRAINING PROGRAMME OUTLINE

- Renewable energy basics
- The latest developments in wind power systems, solar thermal heating, photovoltaic generation, geothermal heating, electrical production, biofuels, waste-to-energy systems, energy storage, fuel cells, hydroelectric power, ocean thermal energy
- Assessments of the various forms of renewable energy
- Case examples of renewable energy projects

- Strengths and weaknesses of renewable energy applications
- Using renewable energy solutions in building applications
- Opportunities for using renewable energy
- Strategies for making a business case for using renewables
- Economic issues, financial methodologies and incentives
- Approval processes
- Installation
- Lessons learned and pitfalls to avoid

COURSE OUTCOMES

Delegates will have a full understanding of the range of renewable energy resources available, be able to assess the applicability of each for suitable applications, and understand the economic issues surrounding renewables within the business environment.

DELEGATE PROFILE

- Persons with energy management, or renewable and alternative energy experience, who require a recognised qualification within the energy engineering career path.
- For architects, built environment graduates, engineering graduates, environmental graduates the REP™ will open new doors to one of the fastest growing industries in the world.
- Persons that require recognition as a professional that stays

up to date on the latest developments in the renewable energy industry by participating in continued education that is internationally recognised.

- For persons that have to find ways of saving energy and providing alternative means of energy through biomass, biofuel, solar, or other renewable and alternative sources.

BASIC SKILLS REQUIRED

The REP™ training course is at a level which assumes the delegate has basic problem-solving skills, including quick and accurate use of a hand calculator.

EXAMINATION

The REP™ examination will be administered on the morning after the last day of the training. There is no obligation to write the REP™ 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 prerequisites 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 REP™ candidate must attend the REP™ training programme, pass the REP™ 4-hour written examination with 70%, and meet one of the following criteria:

- A 4-year degree in engineering, architecture, science, business, or related field, with 2 years of experience in renewables, alternative energy, biomass, biofuel, solar or training related industry.
- A 2-year technical degree with 5 years of experience in renewables, alternative energy, biomass, biofuel, solar or related industry.
- 10 years or more verified experience in renewables, alternative energy, biomass, biofuel, solar or training related industry.
- 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 the REP™ 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 year membership of AEE for successful candidates.

4. It is the responsibility of the candidate attending the course to arrange their own travel, accommodation, breakfast and dinner.
5. 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.
6. Policy on cancellations
 - a. Cancellations received within five (5) working days prior to the first day of training will carry a 25% cancellation

2. Write the REP™ examination and attain a 70%+ pass mark.
3. Complete your REP™ certification application and return it to your training provider timeously.
4. The local and international REP™ Board will review your application.
5. Your training provider will advise you of the Board's decision.

RECOGNITION

Engineering Council of South Africa (ECSA)

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 REP™ 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.

- 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 SAEE 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