



ECSA CPD
3 credits

AEE CPC
3.2 credits

CMVP

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



Certified Measurement and Verification Professional (CMVP®)

Measure and verify energy savings in compliance with international and local standards, legislation and regulations. Use protocols, methodologies and tools to quantify and manage the performance risks and benefits associated with end-use energy efficiency, renewable energy and water efficiency.

The Association of Energy Engineers (AEE), in cooperation with the Efficiency Valuation Organisation (EVO), has established the Certified Measurement and Verification Professional (CMVP®) programme with the dual purpose of recognising the most qualified professionals in this growing area of the energy industry, and raising the overall professional standards within the M&V field. The International Performance Measurement & Verification Protocol (IPMVP), which the CMVP® training programme is based on, is the internationally recognised protocol for performance M&V and provides a consistent, reliable approach to M&V around the world.

CMVP® is a 2½-day training course, with a voluntary examination on the 3rd day, and provides a platform to possible certification with the AEE with the opportunity for a career path in a fast growing M&V market in the world.

TRAINING PROGRAMME OUTLINE

- Overview of M&V protocols and methodologies
- Compliance to IPMVP
- South African M&V guidelines for Eskom, the Energy Accord, tax incentives and the local M&V framework
- M&V planning activities
- Typical M&V issues and baseline adjustments
- Definition of energy efficiency savings
- Many case studies and examples

COURSE OUTCOMES

On completion of the CMVP® course you will understand the international protocols, methodologies and tools to quantify the performance risks of energy, renewable energy and water efficiency, and to perform M&V tasks on energy savings projects. Upon certification from the AEE, delegates could apply to the Measurement and Verification Council of South Africa (MVCSA) to further their careers in the South African M&V market.

DELEGATE PROFILE

- Persons that need to verify energy savings for tax incentive purposes and risk assessment of energy efficiency projects.
- Persons that need to use standardised methods, protocols and tools to quantify and manage the energy performance risks and benefits for business transactions in water efficiency, energy efficiency, and renewable energy.
- For energy auditors, architects, built environment graduates, engineering graduates, environmental graduates the CMVP® will open new doors into the fastest growing industry in the world.
- Persons that need recognition as professionals in the specialist area of Measurement and Verification (M&V) and participate in continuous energy education to ensure credible and ethical result reporting.

- You are planning many energy efficiency and energy saving projects for your organisation as part of an energy management plan and need to ensure the accurate reporting of such savings for triple bottom line reporting.

BASIC SKILLS REQUIRED

The CMVP® training course is at a level which assumes the delegate has basic problem-solving skills, including quick and accurate use of a hand calculator and the ability to use basic algebra.

EXAMINATION

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

- A 4-year degree in science, engineering, architecture, business, law, finance, or related field, or be a registered professional engineer (P.E.), or registered architect (R.A.) – within South Africa a PrEng, PrArch – with at least 3 years' experience in energy, building or facility management, or measurement and verification.
- A 3-year technical degree – within South Africa a PrTechEng, PSAT – with at least 4 years' experience in energy, building or facility management, or measurement and verification.
- A 2-year technical degree – within South Africa PrTechniEng, PAT – or 4-year non-technical degree in a field not specified above with 5 years' experience in energy, building or facility management, measurement and verification.
- 10 years or more verified experience in energy or building or facility management, or measurement and verification.
- The current status of Certified Energy Manager (CEM®).

STEPS TO CERTIFICATION

- Attend the CMVP® training course with an AEE approved training partner.

* Terms and conditions

- First paid first served policy applies for booking security
- Booking security requires the following to be received six (6) working days prior to the commencement of the course:
 - Full payment with proof of payment supplied.
 - A deposit of 25% with proof of payment supplied.
 - A purchase order for the full amount of the invoice.
- 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 SAE. For examinations the fee includes the examination fee, marking fee, certification application fee, and 1 year membership of AEE for successful candidates.
- It is the responsibility of the candidate attending the course to arrange their own travel, accommodation, breakfast and dinner.
- Policy on international candidates
 - 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.
 - VAT is payable for candidates attending training in South African borders, this may be claimed on departure from South Africa using the tax invoice.
- Policy on cancellations
 - 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.
 - Cancellations received six (6) working days prior to the first day of training will receive a full refund.
- Policy on accounts not in good standing
 - The candidate in attendance at the course ultimately remains responsible for payment of the outstanding account and providing the proof of payment thereof.
 - 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
- The Energy Training Foundation (EnTF) is a division of Energy Cybernetics (Pty) Ltd and the invoice will be made out by Energy Cybernetics.
- Proforma invoices will be supplied, Tax Invoices will be raised on request but these are payable within 30 days of issue.
- 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).

- Write the CMVP® examination and attain a 70%+ pass mark.
- Complete your CMVP® certification application and return it to your training provider timeously.
- The local and international CMVP® Board will review your application.
- Your training provider will advise you of the Board's decision.
- Should you receive feedback that you are a CMVPIT (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)

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

Association of Energy Engineers (AEE)

3.2 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 CMVP® 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:

R8 000.00 (excl VAT)

Examination rewrite fee: R4 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 SAEE 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.