



Certified Measurement & Verification Professional[®] Training Program

A Certified Measurement & Verification Professional[®] (CMVP[®]) is an individual who manages or performs internationally recognized methods of quantifying the energy usage impacts of energy management activities. They apply the fundamental concepts of performance and savings verification in a wide range of contexts, including energy savings performance contracts and utility/government incentive programs. A CMVP[®] can often help a company confidently and cost-effectively implement cost saving activities through clear communication with project partners.

About this Training Program

This training program is designed to provide attendees an understanding of industry best practices for measurement and verification (M&V), including how to evaluate the performance of efficiency projects, and how to best apply International Measurement and Verification Protocol standards.

What You Will Learn

- Learn about the fundamental method for creating M&V plans or performing M&V as required by others.
- Learn how to apply the core M&V program concepts and framework to a wide variety of facilities, including existing and new buildings and industrial processes.
- Undertake a review of the primary international standards, guidelines and protocols, such as the IPMVP[®], ASHRAE[®] and ISO with a detailed explanation of how they compare and contrast.
- Learn the importance of establishing clear communication of core concepts with all project partners to avoid misunderstandings.

At-a-Glance

- » This training program prepares attendees to take the Certified Measurement & Verification Professional[®] (CMVP[®]) exam.
- » This program is held over 3 days.
- » You earn 2.4 CEU | 24 PDH | 4.8 AEE Credits for completing this program.

Key Takeaways

- » Work through practical examples to demonstrate the topics and procedures covered.
- » Review the various areas of the Body of Knowledge associated with AEE's certification exam.
- » Discuss how to apply what you have learned to your business and applications.
- » Leave with a course workbook and other tools that are invaluable in the field.

Registration

Candidates should contact their local AEE approved training provider for information about available training programs, the certification application process, exam registration, and associated fees. To find your local training provider visit

aeecenter.org/training



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Who Should Attend

The program is of greatest value to those undertaking, managing, or assessing M&V energy projects. Obtaining AEE's CMVP[®] certification provides international credibility among energy management and M&V communities. Attendees of this program have included existing M&V professionals, Certified Energy Managers, Certified Energy Auditors, energy engineers, energy analysts, financial executives, manufacturing and facilities managers, and energy consultants.

Course Outline

- Introduction to Energy Management Concepts
- Modeling Concepts and Applications
- Contextual Considerations
- Fundamental Performance Verification Approaches Whole Facility Approach
- Retrofit Isolation Approach
- Basis for Adjustments
- Metering Considerations
- M&V Planning
- M&V Reporting
- Worked Examples and Exam Review

Our Instructors

Over three days, a professional instructor(s) will guide you through M&V and how to apply M&V Protocols to your energy projects. Their teaching and industry experience allows them to deliver information that is of the most relevance and practical value to attendees.

Certification Eligibility

The prerequisites to qualify for the certification process take into account the diverse education and experience applicants may have. Each candidate must meet the required criteria at

aeecenter.org/cmvp

Global Training Programs

For a complete list of AEE training programs delivered globally visit

education.aeecenter.org/global

Accreditation and Recognition

The Certified Measurement & Verification Professional[®] (CMVP[®]) accreditation is one of the most globally respected in the field of energy management. For a full list of organizations that have recognized or accredited the CMVP[®] program visit

aeecenter.org/cmvp

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Daily Agenda

Day 1

Introduction to M&V

- Definitions
- History of measurement
- Brief history of M&V
- Importance of a standard language

Modeling Concepts and Applications

- The Counterfactual Method
- Models - types and uses
- Introduction to adjustments
- Uncertainty for planning and reporting

Contextual Considerations

- M&V in contracts
- M&V in programs
- Guiding principles
- Role of judgment

Performance Verification Approaches

- Whole facility vs. retrofit isolation
- Four “Options” defined in FEMP, IPMVP®
- Other definitions in ASHRAE, ISO

Day 2

Basis for Adjustments

- Measurement boundary
- Selecting a baseline
- Routine vs non-routine adjustments

Whole Facility Approach

- Setting the measurement boundary
- Identifying relevant data

Selecting the model type

- Statistical (regression)
- Physical (simulation)
- Advanced modeling concepts
- Uncertainty assessment

Retrofit Isolation Approach

- Strengths and weaknesses
- Interactive effects
- Metering/cost issue
- Uncertainty planning and reporting
- Types of models

Day 3

Metering Considerations

- Types and methods
- Planning
- Accuracy vs cost
- Calibration
- Safety

M&V Planning

- M&V plan process
- M&V plan contents
- Contextual adherence

M&V Reporting

- Assessing value
- Non-energy benefits calculations
- Implementing non-routine adjustments

Example Exam Questions

Worked examples

IPMVP® is a registered trademark of the Efficiency Value Organization



Preparatory Course and Certification Examination for the Certified Measurement & Verification Professional (CMVP)

Location in India (<https://www.aeecenter.org/certified-measurement-verification-professional/>) Organized by AEE Kolkata Chapter, IISWBM

REGISTRATION

Updates on Course schedules, eligibility, fees, contact for details and registration information are available at: www.iiswbm.edu and www.aeecenter.org/internationalcertification/CMVP. Before submitting fees, you are advised to check your eligibility and availability of seat by submitting the filled-up application form available at following link for enrolment:

<https://forms.gle/wZ7C9KXr4ZgcHBpZ7>

INDICATIVE INFORMATION: DATES, FEES and PROCEDURE

If those who are eligible, in terms of educational qualification, to take the exam but do not meet the experience requirement, on the date of application for CMVP, receive a passing score, they can still earn the CMVP In Training (CMVP-IT) certification. Then they have up to six years to gain the number of years of experience needed based on their education level (see eligibility requirements for CMVP & CMVP-IT).

Email your queries to aeecourseswithiiswbm@gmail.com / kmaiiiswbm@gmail.com and/or WhatsApp/SMS +91 9433719779/9088231862.

Particulars	July 2026 Session
Last date of submission of filled-up application form along with fees	July 08, 2026
Confirmation of Registration for CMVP Training and/or CMVP Exam along with invitation for Scheduling CMVP exam through ProctorU to Eligible Candidates	July 10, 2026
Conduction of online CMVP International training by IISWBM	July 16-18, 2026
Online examination window by AEE (Through ProctorU)	July 19-31, 2026
Declaration of CMVP Examination Result	August 31, 2026

Prior to sitting for the exam, each candidate must complete an application.

#CMVP Training would be optional for the following candidates:

- Candidate possessing CEA or CEM certification from Bureau of Energy Efficiency (BEE), Government of India
- Candidate completed MBA-PS degree OR Master in Public Systems Management (MPSM) with specialization in Energy Management OR Post-Graduate Diploma in Energy Management (Approved by AICTE) from IISWBM-University of Calcutta.

The CMVP exam will be administered during the scheduled Online Exam through ProctorU to those, with requisite experience and degree from an (AICTE/UGC/AIU/Such Body) accredited university or college, who has qualified in advance to sit for the exam by submitting a completed CMVP application and fee.

Fees for the Training Seminar (in INR)*	40000
Fees for the Examination (in INR)*	40000
Total (in INR)*	80000

*Add GST 18%. Discount of up to 5% applicable to active AEE members recommended by the applicant's AEE Chapter President/Vice-President

CMVP Study Guide available at https://www.aeecenter.org/wp-content/uploads/2022/03/TRP-CMVP-Intl_03-22.pdf

Many other sources useful to prepare for CMVP are also available in the said link. AEE Book also may be available at cost with the AEE Chapter.

COURSE INSTRUCTORS FOR CMVP INTERNATIONAL



Hassan Younes is the Co - CEO & Founder of grfn, a multi-disciplinary consultancy and has over 18 years of extensive experience in the fields of Design, Energy Efficiency, Sustainability, and Project Execution and Management. Hassan has been involved in many high-end projects in the MENA region encompassing MEP designs, energy efficiency, commissioning management, sustainability and measurement and verification for new and existing buildings in the MENA region. He also was involved in energy and sustainability policy studies for many governmental entities in the GCC. He is a trainer for the ASHRAE Global Training Center. He is a trainer for the Association of energy engineers' Certified Energy Manager (CEM) and Certified Measurement Verification Professional (CMVP) courses. He is on ASHRAE standard 245, TC 6.2 and an appointed Consultant for ASHRAE 62.1 and 90.4 Standards. Hassan is a member of the certification board for the CMVP course. Hassan contributed with a case study to ASHRAE district cooling guide 2nd edition and one was of the reviewers of that publication. Hassan is the chair of the industry advisory panel for the Architectural Engineering program of Heriot Watt university. Hassan was the ASHRAE Falcon Chapter president and on the technical committee and was the Vice Chair of CIBSE Regional Chapter. Hassan holds 7 ASHRAE certification.

For further detail contact Prof (Dr) Krishna M Agrawal, Certification Administrator Email: aeecourseswithiiswbm@gmail.com and kmaiiiswbm@gmail.com , Mob: 9433719779 Mr Soumen Achar, Coordinator, Email: soumenachar143@gmail.com, Mob: 9088231862

The Director of IISWBM & President of AEE Kolkata Chapter : Prof (Dr) Krishna M Agrawal (Email: kma_director@iiswbm.edu);

The Presidents of the supporting AEE Chapters are: Mr Dalip Singh, AEE Delhi Chapter (Email: dschahar@gmail.com) and

Mr Milind Rajendra Chittawar, AEE Western India Chapter (Email: milind.chittawar@seetechnologies.in)

Mr Vinay Gadikar, AEE Pune Chapter (Email: vinaygadikar@gmail.com)

Mr Amit Kumar Dass, AEE North India Chapter (Email: amit.dass@greec.in)

Submission of Application: For enrolment apply through link <https://forms.gle/wZ7C9KXr4ZgcHBpZ7>

OR Emails your credentials to aeecourseswithiiswbm@gmail.com / kmaiiiswbm@gmail.com within stipulated date with Name(s), Qualifications & Experience (enclose supporting document), Address for Communications (with mobile number and Email), and other information as per Application Format with PP size Photo, and proof of online payment made by the stipulated date.

Rise to the Top of the Energy Management Profession: Become AEE Certified