



IN CONJUNCTION WITH



Certified Measurement & Verification Professional®

An Industry Recognized Certification for M&V Professionals.

Who are Measurement & Verification Professionals?

- Are you an energy manager looking to validate your energy savings?
- Are you a consultant that specializes in the energy performance of your clients' buildings and facilities?
- Are you a building owner or manager looking to understand how energy savings can finance your next project?
- Are you involved in designing industrial processes or new buildings?

A Certified Measurement & Verification Professional (CMVP®) is an individual who measures and verifies energy usage and energy requirements of building systems, industrial processes, parts of a building, or throughout an entire building or facility. They develop metrics so that energy usage is measured, savings are verified, and investment in energy, water, demand management, retrofit, and renewable energy projects can be evaluated and prioritized. A CMVP can often help a company realize substantial savings.



What does the Certified Measurement & Verification Professional (CMVP®) Certification Program offer?

This program helps educate and qualify individuals undertaking or assessing energy projects in buildings and facilities. By obtaining the CMVP Certification, candidates gain industry and peer recognition by demonstrating their understanding of M&V, and more specifically, the essential concepts of the International Performance Measurement and Verification Protocol (IPMVP). The program raises the professional standards, both technical and ethical, of those engaged in energy efficiency and energy performance measurement and verification.

What is the bottom line for me or my company?

Gaining a wide-reaching and industry-recognized certification is always a personal and financial investment. Since its inception in 2002, the CMVP certification program has demonstrated its validity year after year. Individuals already engaged in energy efficiency report career improvements in the form of salary and responsibility increases. The certification shows a fundamental understanding of the industry and a commitment to their career. Companies, organizations, and consultants with a CMVP on-staff often see a higher affinity with their customers because CMVPs understand their customer's requirements, speak the language of M&V, and are trusted to report and validate energy metrics and potential savings.

aeecenter.org/cmvp

What functional areas does the CMVP® Certification Program cover?

The certification program requires fundamental knowledge across several core principles and practices specific to measuring, verifying, and reporting energy performance. These include:

- Basis for Adjustments
- M&V Plans
- IPMVP Options
- Option A: Retrofit Isolation
- Option B: Retrofit Isolation
- Option C: Whole Facility
- Option D: Calibrated Simulation
- Savings Reports
- Adherence
- Metering and Considerations
- Modeling, Sampling, and Uncertainty
- Foundational Principles

How do I become eligible for AEE's CMVP® certification?

Every certification program offered by AEE is defined by strict standards to ensure the program maintains its industry-wide recognition and credibility. To that end, AEE stipulates three criteria that all CMVP candidates must meet. Firstly, applicants must have relevant experience or educational credentials (see below). Secondly, candidates must undergo a defined training program that aligns with the fundamentals knowledge base of the program, and the principles and practices of the industry as a whole. Thirdly, candidates must pass the associated exam to demonstrate their technical knowledge, proficiency, and abilities in the area of energy efficiency.

Experience & Education

Applicants must meet one of the following eligibility criteria:

- Hold a related* bachelor's degree OR Professional Engineer (PE) OR Registered Architect (RA) and 3+ years related* work experience.
- Hold a 4-year unrelated Bachelor's degree and 5+ years related* work experience.
- Hold a 2-year associate degree and 5+ years related* work experience.
- Have 10+ years related* work experience
- Be a current Certified Energy Manager (CEM®).

*Related degree in science, engineering, architecture, business, law, finance, or related field and related experience in energy, building or facility management, or measurement and verification.

What is the IMPVP, and how was it developed?

The International Performance Measurement & Verification Protocol (IPMVP), first established by the U.S. D.O.E., has become the internationally recognized protocol for performance measurement and verification (M&V). The IPMVP guidelines, built with the help of organizations from 16 countries and hundreds of individual experts from 25 nations, provides a consistent, reliable approach to M&V around the world. More information about EVO, as well as access to the guidelines can be found at www.evo-world.org.

Why do I need to take a training program when I believe I already have the knowledge and experience required to pass an exam?

The CMVP Training program provides more value than only preparing individuals to take the associated exam. It brings all candidates to a base level of understanding of M&V essentials, including understanding the International Performance Measurement and Verification Protocol (IPMVP) and why ISO 50001 standard for Energy Management Systems is critical for M&V professionals. Candidates 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.

For those entrenched in their normal daily activities, attending a training program, held away from the office, in a classroom environment can be a catalyst for improvement and change. For many, the chance to network, connect, and learn from other like-minded individuals is incredibly valuable.

I obtained my CMVP® Certification, where do I go next?

The CMVP certification can help define your status as an M&V professional and help progress your career. Once complete, make sure you maintain your account and keep track of your certification on aeecenter.org.

You can also keep up to date on energy management practices and technologies by joining your local AEE Chapter. Energy professionals continuously tell us that they stay ahead in the industry by getting involved in their local community.

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