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CERTIFIED MEASUREMENT & VERIFICATION SPECIALIST
CMVS



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CERTIFIED MEASUREMENT AND VERIFICATION PROFESSIONAL - CMVP OVERVIEW

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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MODULE 2

Knowing the Process of CMVP Credentialing

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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CERTIFIED MEASUREMENT AND VERIFICATION CMVP OVERVIEW

A Certified Measurement and Verification Professional (CMVP) manages internationally recognized methods for quantifying energy usage impacts of energy management activities.

Learning Objectives

- Introduction
- Knowing the Process of CMVP Credentialing
- Basic Concepts of Measurement & Verification
- Organizational Fundamentals
- Measurement and Verification Process
- Specialist Certification in Measurement and Verification
- Protocols and Advantages of M&V
- Summary and Resources

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INTRODUCTION

- Manages internationally recognized methods for quantifying energy usage impacts.
- Applys performance and savings verification concepts in various contexts.
- Assists companies in implementing cost-saving activities through clear communication with project partners.
- Globally respected in energy management field.
- A Certification for Energy Efficiency Professionals.
- Includes 2012 version of International Protocol for Measurement and Verification of Energy Performance.

CMVP CERTIFICATION OBJECTIVES

- Certifies knowledge and experience in IPMVP protocols.
- Ensures quality of measurements and analyses.
- Ensures ethics in energy design offices.
- Requested by most tenders for energy renovations, CPE projects, and commissioning.
- Impacts service providers in energy design offices.



WHAT ARE THE CRITERIA?

- Increase the professional standards of individuals who are involved in measurement and verification.
- Encourage professionals to engage in a continuing professional development education program for measurement and verification professionals in order to enhance the practice of measurement and verification.
- By successfully concluding certification and adhering to the established standards of performance and conduct, identify individuals who possess a sufficient understanding of measurement and verification principles and practices.
- Provide special recognition to professionals who have exhibited a high level of ethical aptitude and competency in the areas of measurement and verification.



WHO SHOULD GET CMVP CERTIFICATION?

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- Energy managers are looking to validate their projects' energy savings.
- Our consultants specialize in enhancing the energy performance of your clients' buildings and facilities.
- Building owners or managers are interested in learning how energy savings can help finance your next project.
- Professionals design new buildings or industrial processes.



CMVP SKILLS ACQUIRED

- Setting the framework for measurement and verification operations.
- Define the reference situation for measurement and verification.
- Designing a measurement and verification plan.
- Establishing a mathematical model of energy consumption.
- Determining the scope for measuring energy savings in an energy performance improvement project.



CMVP SKILLS ACQUIRED +

- Determining and selecting independent variables influencing energy consumption.
- Creating a reference energy consumption model and assessing its validity.
- Calculating uncertainty in determining energy savings.
- Establishing a project's measurement and verification plan.
- Creating an energy performance monitoring report.
- Following the conservation principle when calculating conservatory energy savings.
- Calculating energy savings of a simple project using the adjustment model.



WHAT IS THE SCOPE OF THE CMVP CERTIFICATION PROGRAM?

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



WHO IS ELIGIBLE TO BECOME A CMVP?

- We are seeking candidates with relevant experience or educational credentials, as detailed below.
- Candidates who have participated in a training program that aligns with the fundamental knowledge base
- The program adheres to the principles and practices of the industry as a whole.
- Candidates who have passed the associated exam demonstrate their technical knowledge.
- They are proficient and skilled in energy efficiency.



EDUCATION AND EXPERIENCE REQUIREMENTS

Applicants must meet one of the following eligibility criteria:

- Hold a 4-year bachelor's degree from an accredited university or college in science, engineering, architecture, business, law, finance, or a related field, along with 3 years of related work experience.
- You must possess a Registered Professional Engineer (PE) or Registered Architect (RA) qualification and three years of relevant work experience.



EDUCATION AND EXPERIENCE REQUIREMENTS +

- Obtain a 4-year bachelor's degree in an unspecified field from an accredited university or college, accompanied by 5 years of relevant work experience.
- Hold a 2-year technical degree along with 5 years of related work experience.
- I have 10 years of related work experience.
- Hold the current status of Certified Energy Manager (CEM) or Certified Energy Auditor (CEA), along with 1 year of related work experience.
- Verified experience in energy management projects involving measurement and verification.

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CERTIFIED MEASUREMENT AND VERIFICATION PROFESSIONAL (CMVP)

The Certified Measurement and Verification Professional (CMVP) is a prestigious designation awarded by the Association of Energy Engineers and Efficiency Valuation Organization, offering numerous benefits.

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CMVP CERTIFICATION OVERVIEW



Every certification program offered by AEE is defined by strict standards to ensure the program maintains its industry-wide recognition and credibility.

The Association of Energy Engineers has launched the Certified Measurement and Verification Professional program to recognize and elevate the most qualified professionals in the energy industry.

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CMVP CERTIFICATION EXAM OVERVIEW

- Four-hour open book exam.
- Questions based on Body of Knowledge.
- Includes 9 different subject sections due to diverse background.
- Hand calculator required due to exam restrictions on computers, tablets, and cell phones.



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CONTACT US

+91 6363032722

info@beyondsmartcities.in

learn.beyondsmartcities.in

#55,HMR Layout ,Bengaluru ,India



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THANK YOU

