

# € TRAINING

Certified Measurement and Verification  
Professional CMVP





# Certified Measurement and Verification Professional CMVP

## Introduction:

This program is designed to prepare participants for the certification exam only.

This training program offers participants comprehensive knowledge and skills essential for mastering measurement and verification M&V techniques. It empowers them to ensure compliance, enhance accuracy, and optimize energy efficiency practices within their organizations.

## Program Objectives:

At the end of this program, participants will be able to:

- Understand the fundamentals of measurement and verification M&V.
- Develop skills in implementing M&V methodologies and techniques.
- Learn to design and execute effective M&V plans.
- Gain insights into industry standards and protocols for M&V.
- Enhance capabilities in verifying and reporting energy savings accurately.
- Prepare for successful completion for the Certification Exam.

## Targeted Audience:

- Energy Managers.
- Sustainability Professionals.
- Engineers.
- Energy Auditors.
- Project Managers.
- Facilities Managers.

## Program Outline:

Unit 1:

Fundamentals of Measurement and Verification M&V:

- Overview of M&V and its importance in energy management.
- Key concepts and terminologies in M&V.
- Roles and responsibilities of M&V professionals.
- Types of M&V methodologies and approaches.
- Case studies on the application of M&V in energy projects.

## Unit 2:

### Implementing M&V Methodologies and Techniques:

- Techniques for collecting and analyzing data.
- Selecting appropriate M&V methodologies for different projects.
- Utilizing tools and software for M&V.
- Conducting baseline and post-installation measurements.
- Exercises on implementing M&V techniques.

## Unit 3:

### Designing and Executing M&V Plans:

- Steps for developing comprehensive M&V plans.
- Identifying key performance indicators KPIs for M&V.
- Planning and coordinating M&V activities.
- Ensuring accuracy and reliability in M&V processes.
- Case studies on designing and executing M&V plans.

## Unit 4:

### Industry Standards and Protocols for M&V:

- Overview of relevant industry standards IPMVP, ASHRAE.
- Understanding regulatory requirements for M&V.
- Compliance with M&V protocols and guidelines.
- Documenting and reporting M&V results.

## Unit 5:

### Verifying and Reporting Energy Savings:

- Best practices for verifying energy savings in projects.
- Techniques for accurate measurement and validation.
- Preparing and presenting M&V reports.
- Continuous improvement in M&V practices.
- Real-world examples of successful energy savings verification.

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