



MEASUREMENT AND VERIFICATION FUNDAMENTALS

ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE

08

Summary and Resources

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Summary & Resources

Whether you are an experienced professional or an informed manager, this introductory M&V course will provide you with the foundational knowledge required to apply M&V principles to energy efficiency projects.



LEARNING OBJECTIVES

- ✓ Summary
- ✓ Resources
- ✓ Certified Measurement & Verification Specialist Online training

Learning Objectives

- **Introduction to Measurement and Verification**
- **What is Measurement and Verification?**
- **Understand the circumstances in which M&V protocols are used.**
- **Energy Efficiency Performance Measurement and Verification Certification Programs**
- **Certified Measurement & Verification Professional - CMVP by Association of Energy Engineers**
- **Who are certified measurement and verification professionals?**
- **What does a CMVP do?**
- **Benefits of Measurement and Verification**

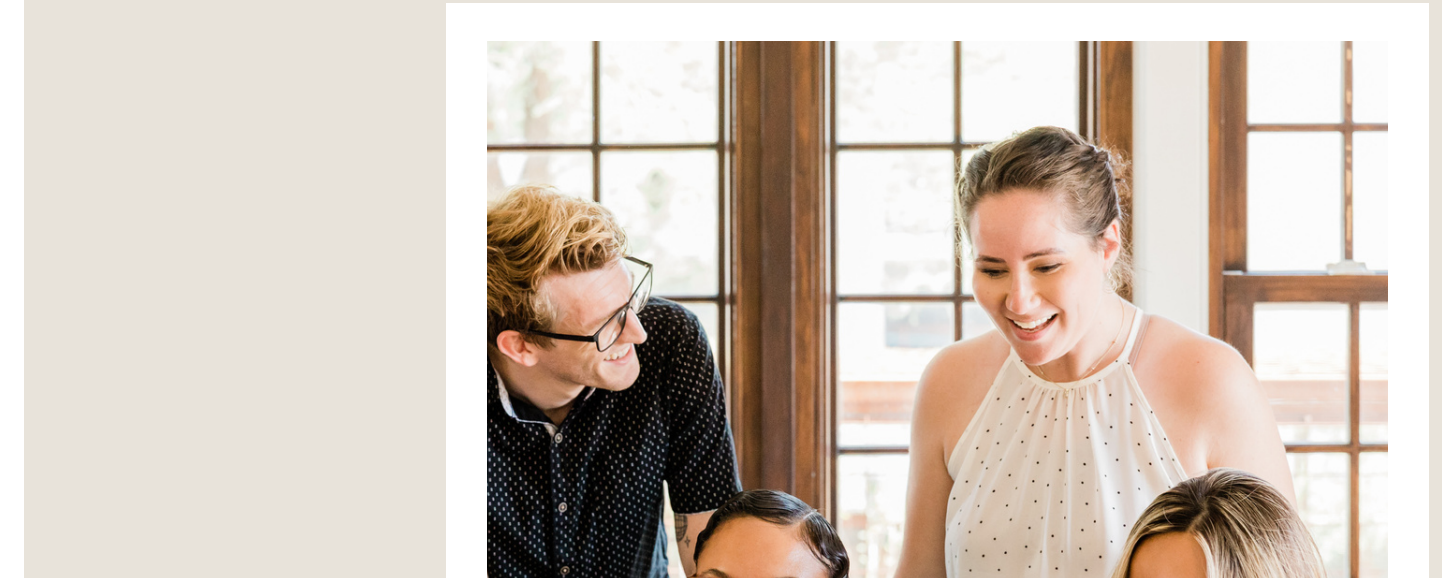
SUMMARY



- Accurate measurement and verification (M&V) is crucial to calculating and reporting verified savings resulting from the implementation of energy (and water) conservation measures (ECMs).
- This training program provides guidance for performing M&V for energy performance contracting (EPC) projects performed by energy service companies (ESCOs).
- The concepts and principles of M&V can be applied to both energy and water conservation. Hence, references to energy and water conservation within the context of this guidance document are used interchangeably across the document.
- General practitioners, experts, and managers can take the Measurement and Verification Overview course to learn about energy savings M&V. Evaluating energy conservation measures for energy efficiency projects, regional efficiency programs, or internal projects shows project success, improves installation operations, obtains financial assistance, and raises user awareness.
- This 1.5-hour training introduces M&V and its effects and roles. Course participants learn through practical examples.

Conclusion

1. This introductory M&V course provides the foundational knowledge needed to apply M&V principles to energy efficiency projects, whether you are an experienced professional or an informed manager.
2. Accurate measurement and verification (M&V) is crucial to calculating and reporting verified savings resulting from the implementation of energy (and water) conservation measures (ECMs).
3. This document provides guidance for performing M&V for energy performance contracting (EPC) projects performed by energy service companies (ESCOs).
4. The concepts and principles of M&V can be applied to both energy and water conservation. Hence, references to energy and water conservation within the context of this guidance document are used interchangeably across the document.



Resources

This training program is based on best practice in M&V. The guidance provided here is based on the following references:

1. International Performance Measurement and Verification Protocol, Energy Valuation Organization (EVO), IPMVP Core Concepts EVO 10000-1:2016.
2. M&V Guidelines: Measurement and Verification for Performance-Based Contracts Version 4.0, the Federal Energy Management Program (FEMP), U.S. Department of Energy, November 2015.
3. Industry best practice in M&V.





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- *Albert Einstein*



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