

Advanced Measurement and Verification (M&V)



The advanced measurement and verification training program is a hand on training program in measurement and verification, building on theoretical knowledge acquired through the CMVPs training and certification. This 2-day program covers several statistical tools as well as various examples and case studies as well as actual development of an M&V plan. The training is based on the 35-year international experience in M&V of CIET's parent

company, Econoler.

Program Content

1. Statistical Tools for M&V (Day 1)

This one-day module recaps the main features of M&V and focuses on the use of various statistical tools for developing M&V plans, such as: sampling, linear regression (including multi-variables regression), uncertainty calculations. Exercises to be performed by the attendees will reinforce the learning process.

2. Practical Examples and Case Studies (Day 2)

Practical examples will be reviewed for Options A, B and C, for the following cases: lighting, motor & variable speed drives, compressed air, heat recovery system and a commercial building. Attendees will also have to perform calculations for these cases. The day will conclude with the development of an M&V plan for an industrial process.

This course is designed for an in-depth understanding of the concepts covered in the course leading to the Certified Measurement and Verification Professional (CMVP) accreditation. The course also features concrete examples and case studies.

CMVP designation is not required, but **strongly recommended**.

Target Clientele

This in-depth course is ideal for the following clientele:

- Building/industry owners who wish to measure their projects' energy savings
- Building/industry owners who wish to partner with ESCOs to implement energy efficiency (EE) and energy performance contracting projects
- Utility staff responsible for EE program evaluation
- Engineering/professional firms specialized in energy efficiency
- ESCO employees required to prepare M&V plans



Logistics

CEUs: 1.4

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