

IJET Energy Training

2016

Your Guide to IJET Professional Training and Certification in Energy Efficiency



“The contents and lecture are excellent.”

Yon g Seok Yoon, Korean Standards Association
Certified Measurement and Verification
Professional (CMVP)

November 2015, Seoul

About IJET

The International Institute for Energy Training (IJET) is a widely recognized organization specialized in providing training services related to energy efficiency (EE). We are notably specialized in delivering high-quality energy-management and energy-efficiency training and certification programs. EE is by far the quickest, easiest and most logical way to fight climate change and IJET is dedicated to participating in international efforts to accomplish ambitious climate change mitigation targets. Over the past years, we have been a proud leader in providing top-notch EE training and have offered more than 35,000 training-days worldwide. IJET now offers over 100 training sessions each year in a dozen countries, ranging from 1-hour live online training sessions to 9-day certification programs.



Visit iiet.com for more information.

Table of Contents

IJET in Numbers	1
IJET's Training Approach	2
TIER 1 — Certification Programs	3
TIER 2 — Short Thematic Courses	4
TIER 3 — Thematic Online Training	5
Fall 2016 Training Calendar	6
On-site Training	7
Custom Training	8
Trainers' Thoughts on Training	9

Your IJET Contacts

 +1 800 461 7618 / +1 647 255-3107

Customer Service:



Valérie Bégin



Ysabelle Huard

info@iiet.com

Management, Partnerships and Corporate Sales:



Mathieu Côte, Director
mcote@iiet.com

IJET in Numbers



○ **5** languages

○ **20** years of experience

○ **30** standard training programs

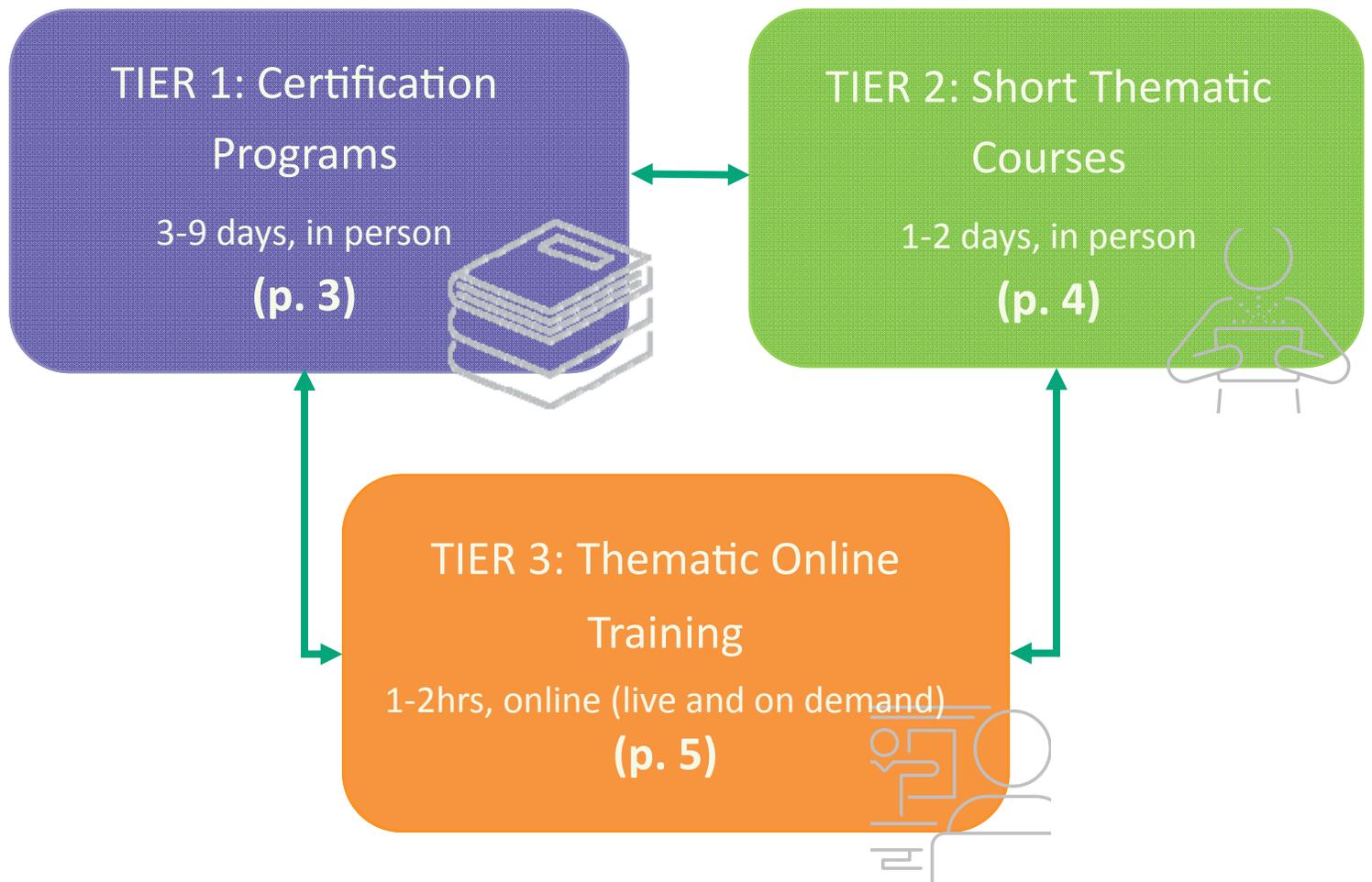
○ **60** regular trainers

○ **9,000+** past trainees

○ **180,000+** training hours

IJET's Training Approach

All of IJET's training programs are interrelated and intended to offer clients and participants the widest range of choices possible to meet their energy training needs. Whether you decide to take it one bite at a time and start with a **TIER 3 Thematic Online Training** to whet your appetite, or whether you go straight to the real thing and challenge the **TIER 1 Certification Programs** is really up to you and depends on your needs. Regardless of the route you take, we promise to offer high-quality knowledge-sharing, which will help you in your everyday work.



TIER 1 — Certification Programs

IJET's **TIER 1 Certification Programs** are a group of the most popular, recognized and sought-after energy-training programs.. Notably, IJET is (1) the lead international training partner of the Efficiency Valuation Organization (EVO); (2) the only international training licensee of the US Northwest Energy Efficiency Council (NEEC); and (3) the only licensee for Natural Resources Canada CanmetENERGY's Advanced Building Recommissioning. Overall, more than **16,000 practitioners** currently hold one of the following designations.

Visit iiet.com for more information on each program.

Programs

- Advanced Building Recommissioning (RCx) from NRCan
- Building Operator Certification (BOC)
- Certified Measurement and Verification Professional (CMVP)
- Certified Professional in Energy Performance Contracting (CPE)
- Certified RETScreen Expert (CRE)



*“Excellent, I recommend
doing another course.”*

Dan Bar Mashiah, ESCO Israel

Certified Measurement and Verification
Professional (CMVP)

July 2016, Tel Aviv

TIER 2 — Short Thematic Courses

Whether you're looking to enhance your knowledge in energy management but are not yet ready for a full-fledged Certified Measurement and Verification Professional (CMVP) training program, or you want to learn more about specific topics covered under our **TIER 1 Certification Programs** to recertify your designation, our rich offerings of short thematic energy courses are among the most comprehensive. IJET is notably an international training licensee for Natural Resources Canada's **Dollars to \$ense** energy management workshops. Visit ijet.com for more information on each program.

Courses

- Advanced management of compressed air systems from Compressed Air Challenge (CAC)
- Advanced measurement and verification
- Demand-side management program design for utilities
- Demand-side management program evaluation (EM&V)
- Efficient building envelope
- Efficient lighting
- Energy analytics (MT&R)
- Energy efficiency financing from **Dollars to \$ense**
- Energy efficiency for managers
- Energy efficiency for sales team [*coming soon*]
- Energy management information systems (EMIS) from **Dollars to \$ense**
- Energy management planning from **Dollars to \$ense**
- Energy monitoring from **Dollars to \$ense**
- Fundamentals of compressed air systems from Compressed Air Challenge (CAC)
- Getting to know RETScreen Expert's Pro License [*coming soon*]
- Introduction to combined heat and power (CHP)
- Introduction to energy performance contracting (EPC)
- Introduction to measurement and verification
- ISO 50001 standard implementation overview
- Motors, variable speed drives and energy efficiency
- Recommissioning for buildings from **Dollars to \$ense**
- Spot the energy savings opportunities from **Dollars to \$ense**
- **Custom in-person training [p. 8]**



TIER 3 — Thematic Online Training

To complement our offerings of in-person training programs, IET's Canadian division, the Canadian Institute for Energy Training (CIET) is proud to introduce in 2016 a new series of online training courses. These cover topics ranging from **Canadian energy codes in 120 minutes**, to **Understanding carbon cap-and-trade**. Available either live or on demand, they are ideal for keeping abreast of evolving energy-related topics, recertifying your **TIER 1 Certification Programs** or maintaining your professional status (i.e., P.Eng.).

New topics will be added and announced regularly every season at iiet.com/online.

Live Online Training

Date	Title
Nov. 2, 2016	Understanding carbon cap-and-trade
Nov. 16, 2016	Using energy efficiency to reduce greenhouse gases and air pollution - policy and program strategies
Nov. 23, 2016	Canadian energy codes (NECB 2011, ASHRAE 90.1, etc.) in 120 minutes
Nov. 30, 2016	Roadmap of lighting technologies
Dec. 7, 2016	Smart lighting: a backbone for smart cities' infrastructure and Internet of things
Q1 2017	<i>HVAC: a balance between energy & indoor environmental quality</i>
Q1 2017	<i>Carbon capture technologies</i>
Q1 2017	<i>Improving building automation systems to optimize energy savings</i>
Q1 2017	<i>Basics of good operation & maintenance processes and procedures for energy efficiency gains</i>
Q1 2017	<i>Introduction to behaviour change for energy savings: key concepts and accessible tools</i>

On-demand Online Training

Coming up in Q4 2016!



Fall 2016 Public Training Calendar

Here is a calendar of most public training sessions that IJET offers this fall. Visit iiet.com/training-calendar to find all the dates. Register soon to benefit from our “early bird” discounts!

Last Updated on July 21, 2016

In-person and Online Courses

Location	Course	Start Date	Online
Chile			
			Understanding carbon cap-and-trade Nov. 2
Santiago	Certified Energy Manager (Spanish)	Aug. 22	Using energy efficiency to reduce greenhouse gases and air pollution - policy and program strategies Nov. 16
Santiago	Certified Measurement and Verification Professional (Spanish)	Oct. 19	Canadian energy codes in 120 minutes Nov. 23
			Roadmap of lighting technologies Nov. 30
Dominican Republic			
Santo Domingo	Training on the RETScreen® Software (Spanish)	Sept. 12	Smart lighting: a backbone for smart cities' infrastructures and Internet of things Dec. 7
United Arab Emirates			
Dubai	Building Operator Certification (English)	Oct. 30	
Dubai	Certified Measurement and Verification Professional (English)	Nov. 21	
Dubai	Advanced Measurement and Verification (English)	Dec. 5	
Canada			

Visit cietcanada.com for more than 25 courses this fall.

For programs not yet scheduled, please contact us at info@iiet.com to put your name on the waiting list or to request for an on-site session.

On-site Training: We'll Come to You!

All our standardized energy training programs can be delivered on site at your office or facility. Since you will be providing the training room and taking care of the catering, we can offer you discounted rates on most of our training programs, generally starting at 12 participants. The costs will cover all other expenses such as training, examination and certification fees (where applicable).

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ain benefits of on-site sessions:

- Choose your own training dates
- Reduce your travel expenses
- Reduce time spent outside the office/building
- Flexibility of the training schedule
- Targeted examples, case studies and questions
- Reduced costs
- Doubles as a team-building opportunity

Please contact

Mathieu Côte if you are interested in training your staff in any of our programs.

mcote@iiet.com
+1 647 255-3107



Custom In-class/Online Training

IJET's pool of trainers and subject-matter experts can provide training on just about any topic you can think of that is related to sustainable energy, ranging from energy audits to solar photovoltaic installations, combined heat and power, efficient lighting, EE financing and many more. Our time-tested custom training approach includes the following steps:

- 1 Assessment of training needs
- 2 Definition of training objectives
- 3 Development of a table of contents
- 4 Preparation of the course materials
- 5 Delivery of custom training
- 6 Evaluation of the training



Training is carefully developed and adapted to meet your team's needs in terms of both contents and format. Here is an indicative list of topics we can cover:

- Benchmarking
- Boiler and steam systems
- Building automation systems
- Building codes
- Building commissioning
- Building envelope
- Building recommissioning
- Combined heat and power systems
- Compressed air systems
- Control systems
- Efficient lighting
- Electrical systems
- Energy accounting and economics
- Energy audits and instrumentation
- Energy efficiency in transport
- Energy financing
- Energy management information systems
- Energy monitoring and targeting
- Energy performance contracting
- Energy tariffs
- Geothermal systems
- Greenhouse gases accounting
- HVAC systems
- Indoor environmental quality
- Industrial systems
- Measurement and verification
- Motors and drives
- Photovoltaic systems
- Public lighting
- RETScreen 4 and RETScreen Expert software
- Thermal energy storage systems

Please contact

Mathieu Côte if you are interested in offering custom training to your staff or clients.

mcote@iiet.com
+1 647 255-3107

Trainers' Thoughts on Training

Building Operator Certification (BOC), Steve Taylor (Canada)



Having building operators realize how much importance they have in maintaining the energy savings in their buildings is the best reward of instructing BOC. The program aims at changing the operators' mindsets and empowering them to become actors of change in their buildings. They know the buildings better than anyone else and ultimately make the difference in terms of energy. If they are on-board and understand the reasons behind the set points in the building automation systems, then the savings will increase and last.

Certified Professional in EPC (CPE), Bradley Abbott (Fiji)



Energy performance contracting is a great business model which has generated tremendous energy savings worldwide since the early 80s. However, companies and professionals entering the ESCO business may realize that it is a rather complex world. An ESCO has to master several skills, from marketing to measurement and verification to investment grade audits. The 7-day CPE program is the most-comprehensive training program on EPC and ESCOs and has been offered to ESCO associations and government organizations in several countries, including in Vietnam and Thailand in recent years.

Advanced Building Recommissioning (RCx), Michel Parent (Canada)



Properly commissioning a new building's systems is definitely important. However, considering the large stock of existing buildings, huge savings potential still lies in these older buildings and remains to be tapped into. This course from NRCan covers all the stages of the RCx process: planning, investigation, implementation, hand-off and persistence. As an added benefit in Quebec, after successfully passing the exam, your name will be added to a list of accredited RCx agents.

Certified Measurement and Verification Professional (CMVP), Sandeep Dahiya (India)



Measurement and verification (M&V) of energy savings is at the core of EE projects and what makes savings tangible and "bankable". Good M&V practices build and strengthen the credibility of the sector, which has yet to earn widespread trust for investing in hard-to-grasp energy-saving projects. The CMVP is based on the International Performance Measurement and Verification Protocol (IPMVP), the most-widely cited M&V protocol in the world. Knowing the method will definitely bring more credibility to your EE work.

*“Overall evaluation is
#1. Keep up the good
work!”*

Gavin D’Souza, AW Rostamani Technical Works
Certified Measurement and Verification
Professional (CMVP)
December 2015, Dubai





International Institute for Energy Training (I IET)

160 King Street West, Suite 5600

Toronto, ON

M5X 1C9

+1 800 461 7618 / +1 647 255-3107

info@iiet.com

iiet.com

