



# COMMERCIAL BUILDING ENERGY SPECIALIST - HVAC & CONTROLS TRAINING

The 3-day course provides training in best-practice energy management and efficiency for engineers and technicians involved in the design, construction and maintenance of commercial buildings.

## Who will benefit most from this training?

This course has been created for professionals who work in improving energy efficiency in commercial buildings from the design stage on.

## Energy Master Accreditation

The online exam is available to those who have completed the CBES - HVAC and Controls Training Course and wish to progress with Accreditation as an EnergyMasters CBES - HVAC Specialist.

To achieve Accreditation as an Energy Master Commercial Building – HVAC & Controls Specialist, candidates are required to:

1. Attend and complete the CEP Commercial Building Energy Specialist – HVAC & Controls Training (3 days).
2. Achieve a pass mark in the appropriate online Commercial Building Specialist - HVAC & Controls exam. Questions are based on the content in the training and the pass mark required is 70% of the total marks possible.
3. Meet the Energy Master CBES – HVAC & Controls eligibility requirements for qualifications and experience.

**For more information visit**

<https://cep.org.nz/energy-master-commercial-building-specialist>



## Training 2020

### Attendee Feedback

*" Great course and great trainer. I'm quite new into the industry, just being a recent graduate, and the course started with the basics and then worked its way up to an advanced level. It was interesting and kept me engaged the entire time. Would recommend!"*

**" Good overview of energy saving opportunities available in multiple aspects of systems. Discussions raised during the course were also great, providing insight into specific examples of course items and their implementation."**

## CARBON AND ENERGY PROFESSIONALS NEW ZEALAND

Level 4, Hope Gibbons Building  
7-11 Dixon Street  
PO Box 11508, Manners Street  
Wellington 6142

04 385 2839

<https://cep.org.nz/>

# COURSE CONTENT

This face-to-face presentation and workshop-style course will cover the following topics as they relate to the practice of energy management in commercial buildings:

<ul style="list-style-type: none"><li>• Basic HVAC Design</li><li>• Cooling Plant Hardware and Efficiency</li><li>• Boiler Efficiency</li><li>• Boiler Operations</li><li>• Data Centre Energy efficiency</li><li>• Mechanical Systems Design</li><li>• Indoor Air Quality</li><li>• Motor and Drive Efficiency HVAC</li><li>• Cooling Plant Operational Efficiency</li><li>• Mechanical Systems Commissioning</li></ul>	<ul style="list-style-type: none"><li>• Monitoring and Verification of Energy Savings</li><li>• HVAC controls Fundamentals</li><li>• HVAC controls Applications</li><li>• HVAC control Diagnostics</li><li>• Continuous commissioning of HVAC Controls for Efficiency</li><li>• Energy Management Systems - overview of ISO 50001</li></ul>
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This training programme covers the latest technology and techniques and is set at Advanced Trade to Degree level, equivalent to Levels 5-7 on the NZQA Framework.

**Dates:** Next Delivery TBC

**Location:** Either Auckland or Wellington TBC

**Trainer:** Rob Bishop

<b>Investment</b> <i>(excludes GST, per person)</i>	<b>CEP Member</b>	<b>Non-member</b>
<b>Training Course &amp; Online Exam (3 days)</b> <i>(NB: Online CBES – HVAC &amp; Controls Exam included in training fees)</i>	\$2,100	\$2,350
<b>CBES Accreditation Application &amp; Assessment</b> <i>(NB: Not included in training fees)</i>	\$ 750	\$ 750

*An additional 5% discount applies for multiple bookings from within the same business for this training course*

**For full course details and registration links click here**

<https://cep.org.nz/details/commercial-building-energy-specialist-hvac-and-controls-training/>