

# COMMERCIAL BUILDING ENERGY SPECIALIST TRAINING - HVAC AND CONTROLS

This three 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.

## 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.



**EnergyManagement**  
Association of New Zealand

## EMANZ Training 2019

### 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."*

### ENERGY MANAGEMENT ASSOCIATION OF NEW ZEALAND

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[www.emanz.org.nz](http://www.emanz.org.nz)

# COURSE CONTENT

This presentation and workshop-style course will cover the following topics:

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| <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 commission of HVAC Controls for Efficiency</li><li>• Energy Management Systems- overview of ISO 50001</li></ul> |
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It covers the latest technology and techniques and is set at Advanced Trade to Degree level, equivalent to Levels 5-7 on the NZQA Framework.

## LOCATION & DATES

**Auckland** (Karstens, Tower 1, Level 4, 205 Queen Street)

14, 15 & 16 August 2019

**Investment** (excludes GST)

EMANZ, CIBSE & IRHACE  
Members

Non Members

**HVAC & Controls Course (3 days)**  
(includes Complementary Online Exam Fee)

\$2,100 pp

\$2,350 pp

*An additional 5% discount applies for multiple bookings from within the same business for this training course -  
See website for full pricing options*

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

[www.emanz.org.nz/training/commercial-building-energy-specialist-training-course](http://www.emanz.org.nz/training/commercial-building-energy-specialist-training-course)

### EnergyMasters Accreditation - CBES HVAC & Controls

This is suitable for professionals who are involved in the commercial building energy management sector, and have specific competence and experience in HVAC. To achieve Accreditation as an EnergyMasters Commercial Building Energy Specialist - HVAC & Controls, candidates are required to:

1. Attend an EMANZ Commercial Building Specialist training course (no more than 24 months before applying).
2. Achieve a pass mark of at least 70% on the EMANZ online exam (Based on the content of the EMANZ training course).
3. Submit a report for assessment, preferably for an actual work project and not just for accreditation, accompanied by the competence self assessment form, work history summary and two referee declarations (click [here](#) for full details or visit the EMANZ website).

