



Advanced HVAC: optimisation, operation and maintenance

Learn the technical skills and knowledge to maintain an efficient HVAC system

Heating, ventilation and air-conditioning, also known as HVAC, can be a high energy user for many businesses. Optimising and upgrading your HVAC systems can help you unlock significant cost savings.

Sign up for this course to gain the technical know-how needed to ensure your existing HVAC system is working as efficiently as possible.

What will you learn about?

- Optimisation strategies for: system supervisory control, plant and system control parameter, ventilation and airflow, variable speed based, fan and pump distribution systems.
- Best practice operation and maintenance regimes.
- Energy management training and awareness.
- Verification of optimal HVAC system operations.
- Stakeholder engagement to support HVAC energy efficient initiatives.

Up to
\$3000 worth
of post-training
support available
for only **\$300***

Course benefits

- Learn how to plan future upgrades to optimise energy efficiency and further reduce your ongoing operating and maintenance costs.
- Get practical support from a technical expert who, if possible, will visit your site to look at its HVAC systems.

Who should attend?

- This course assumes that you have either attended the OEH Introduction to energy efficient HVAC course, or have a basic level of understanding of HVAC system operation.
- Anyone involved in managing or operating buildings who has met this requirement is encouraged to attend. This includes building owners, executive managers, sustainability and environment officers, operations and facilities managers, mechanical services consultants and contractors or technical service providers.

Course structure

OEH courses are run by industry experts providing coaching, support and an interactive learning experience.

The advanced course consists of a full day workshop, and includes:

- effective optimisation of existing HVAC systems
- system supervisory control optimisation strategies (optimum start/stop, temperature set point and chiller staging strategies)
- plant and system control parameter optimisation strategies (duct static pressure reset, fluid temperature reset, electronic expansion valves and minimising reheat)
- ventilation and airflow optimisation strategies (economy cycles, night purge, demand controlled ventilation and real time dynamic optimisation of airflow)
- variable speed based optimisation strategies (optimised secondary chilled water pumping, variable head pressure control and integration of HVAC variable speed drive controllers)
- fan and pump distribution systems optimisation
- best practice operation and maintenance regimes
- energy management planning benefits
- continuous energy management training and awareness
- verification of optimal HVAC system operations
- stakeholder engagement to support HVAC energy efficiency initiatives.

One-on-one site visit:

A bridge between training and implementation, this half-day site visit to your organisation will involve:

- one-on-one site inspection at your site with the trainer
- brainstorming session to identify energy efficient upgrade opportunities
- identifying post-training support opportunities.

At a subsidised cost of only \$100*, it is only available to participants who have attended at least one of the two HVAC training modules.

Limited time only: The one-on-one site visit is available for only three months following attendance at a training course.

Subsidised course fee: \$400 per person in Sydney and \$200 per person in regional NSW*. An early bird discount of 25% applies if you book at least one month before the course start date.

OEH also offers the introductory course **Introduction to energy efficient HVAC**, which focuses on HVAC basics and its impact on energy use.

** Offer subject to change without notice*

Post-training support

Unique to OEH energy efficiency training courses, post-training support provides one-on-one expert guidance to help you implement your energy efficiency opportunities and achieve tangible outcomes for your organisation. This gives you access to apply for **up to \$3000 worth of support for only \$300***.

Limited time only: Post-training support is available, on application, for only six months following attendance at a training course.

Custom training: We also offer customised in-house training. If you have a group of 10 or more, we can tailor training to your needs, and conduct the workshops at your place of business.

Locations and dates

Visit www.environment.nsw.gov.au/training to see current dates and locations and to book.

If there isn't a suitable session, please register your interest in future courses online.

Book your place or find out more

Visit:

www.environment.nsw.gov.au/training

Email:

energy.saver@environment.nsw.gov.au

Call:

1300 361 967 (ask for the Energy Efficient Business team)