

# Training workshop: **Conducting energy audits**

**A**N **ENERGY AUDIT** is the rational first step in an energy management programme, and indeed from 2015 energy audits will be mandatory for large enterprises in the UK. This interactive one-day training course was devised primarily for energy users who wish to conduct their own energy audits but it is also useful for consultants. Specifically it covers:

- Purpose, aims, and objectives of energy audits
- Depth and thoroughness – the three classic levels
- Competence, qualifications and commercial independence
- Legislative and regulatory framework: Directive 2012/27/EU (Article 8 and Annex VI); EN 16247-1; ISO 50002; Energy Savings Opportunity Scheme
- Prior analysis: interpreting profiles, trends and relationships
- How to approach the survey: checklist-driven, solution-driven or priority-driven; what to look for
- Measurements and observation
- Instrumentation
- Rules of thumb: examples; appropriate and inappropriate uses
- Estimating likely savings (including sample calculations)
- Interface with measurement and verification
- Estimating installation cost
- Reporting: what to include; formats; confidentiality; ownership of results
- Useful publications and sources of information



The course is most suitable for those who already have a working knowledge of energy management and energy-saving technologies, but the handouts include a list of common technical opportunities to look for during site surveys.

**What participants say:** “Vilnis and Kit know their stuff and were able to bring the topics to life with real examples” • “a good start to formalizing energy audits” • “loved the breakout session”



**Presenters:** course leader Vilnis Vesma MA(Oxon) CEng MEI CMVP CEM is a former local government energy manager. He is the author of *Energy management principles and practice* (BSI, 2009) and co-wrote *GPG316 Conducting an industrial energy survey* for the Energy Efficiency Best Practice Programme. He chaired the committee that drafted *BS EN 16247-1 Energy audits: general requirements*



Kit Oung BEng MSc(Eng) CEng MEI MChemE CEM is a consultant with 15 years' experience in energy auditing for clients in various industrial and commercial sectors across five continents. He chairs the committee writing *ISO50002 Energy audits: general requirements* and has contributed to other international standards. He is the author of *Energy management in business* (Gower, 2013) and is writing a book on energy auditing for publication in 2014.

For dates, venues and rates please check the listings at [www.vesma.com/training](http://www.vesma.com/training)

VESMA.COM, Pound House, Newent GL18 1PS | +44(0)1531 821350 | Vilnis@VESMA.COM