

Energy management training portfolio 2010



Supported by



Energy Institute training courses can help your organisation to reduce carbon emissions, improve energy efficiency and develop energy management solutions. With the raft of new measures, regulations and incentives arriving in 2010 and beyond it has never been more essential to keep your energy staff trained and up to date, ensuring your business does not get left behind. Proactive energy training will save your organisation money - reducing waste and energy bills.

Energy Institute head trainers:



Trevor Floyd CEng MEI

Trevor has been a self employed trainer and energy consultant for almost 20 years, and has worked with the Energy Institute since 2003. He is vastly experienced within the industry and is an author of many energy related publications, including the recent BSI 16001 energy standard. He has also spoken at, and chaired, many conferences around the world. His main areas of work are training, energy auditing, solution development and standards accreditation. He is a Chartered Energy and Marine Engineer as well as being a Registered Low Carbon Consultant, an Assessor for the Carbon Trust Standard and a Verifier for the Emissions Trading Scheme.



Martin Fry CEng FEI

Martin Fry is a Royal Academy of Engineering Visiting Professor at City University in London as well as being member of council at the Energy Institute and chairman of ESTA. He is also the UK lead expert for input to the rapidly developing programme of European and International Energy Management Standards, working with the Energy Institute, ESTA, the British Standards Institute and the Carbon Trust. Along with Trevor he has helped to develop the new BSI 16001 standard.



For further information please contact the EI Professional Development team
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Energy Institute
61 New Cavendish Street
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Training workshops:

Introduction to energy regulations and standards (1-Day)

This workshop will help you make sense of the range of energy regulations and standards. It will also enable you to assess your organisation's compliance with all necessary legislation as well as identify and avoid common pitfalls. The list of topics includes ISO14001, CRC's, EN16001 BSI energy standard and much more.

Metering, monitoring and targeting (1-Day)

Covers the strategies and principles of metering, monitoring and targeting energy usage through data calculations and real life case studies. There will be the opportunity to network with colleagues, find out more about the industry and experience monitoring and targeting equipment in action as well as to hear from an industry expert speaker.

Small scale renewables and microgeneration (1-Day)

Run in conjunction with London South Bank University, this workshop provides a practical demonstration of renewables in action. It will also address issues such as planning consent, financing projects and the role of the utilities. Join our panel of experts in the afternoon to find out more about their experience implementing their own initiatives.

1 Day workshop rates:

EI Member rate: £235 (+ VAT)

Non-Member rate: £355 (+ VAT)

Introduction to energy management – BS EN 16001 (1-Day)

Introduction to BSI 16001 (1 Day)

EI will be running a new one day "Introduction to Energy Management" training course, based around ensuring you have the energy specific skills required to apply BS EN 16001. This will be located at BSI Milton Keynes, and will immediately precede BSI's 'Introduction to BSI 16001' course, designed to teach delegates how to use these skills to create an efficient energy management system.

1 Day rate: £375 (+ VAT)

2 Day rate: £600 (+VAT)

Energy auditing in practice (3-Day)

The only course that combines the opportunity to learn the fundamentals of auditing with the chance to conduct an energy audit on a practical site visit. Learn the theoretical and practical elements of energy auditing, including details of relevant legislation and energy management principles. Carry out a site audit alongside experts before analysing the data and preparing the report.

3 Day workshop rates:

EI Member rate: £720 (+ VAT)

Non-Member rate: £920 (+VAT)



Energy Institute certificate in energy management essentials:

Complete an introductory qualification designed to give participants an overview in the fundamentals of energy management. The course includes participation in five days of energy management workshops, taking place over the space of one week.

Held once in June, and once in November, this will allow students to gain a professional qualification, proving their ability to complete essential energy management tasks.

Delegates will be assessed by taking an exam at the end of the week, testing their ability to apply the information gained, and will receive the Energy Institute Certificate in Energy Management Essentials on successful completion.

Workshops Included:

Day-1 - Introduction to energy regulations and standards

Day-2 - Metering monitoring and targeting

Day-3-5 - Energy auditing in practice and exam

Costs:

El Member price: £1100 (+ VAT)

Non-Member price: £1250 (+VAT)

Training in energy management through open learning (TEMOL):

Distance learning

TEMOL, completed remodelled and updated in 2008, is a comprehensive introduction to the field of energy management, leaving students with a rounded and complete knowledge of all core areas. It will help to save energy, reduce carbon emissions, meet your organisation's environmental targets and save money. It also includes a project that allows a student to solve a real issue within their organisation as part of the learning process.

TEMOL Includes:

- 14 learning elements that are practical and work focused, covering technical and managerial aspects of energy management
- Tutor support with continuous assessment through written assignments
- Flexible study materials that can be started at any time.
- An integral 100-hour in-house student project supported by specialist tutors to solve a real energy management problem
- 12-18 months part time study, including an estimated 360 hours of course time, leading to the Energy Institute's Certificate of Competence in the Fundamentals of Energy Management.

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Student profile

This programme is accessible and comprehensive, designed for anyone who is aiming to learn more about energy management or is responsible for energy usage within their organisation.

Past students have worked for local authorities, energy consultancies, police forces, major manufacturing organisations, utility companies, government departments, property consultants and many more organisations looking for flexible energy management training.

Qualification

On successful completion of the course, students are awarded the Energy Institute's **Certificate of Competence in the Fundamentals of Energy Management**. This gives candidates a qualification as a professional Energy Manager, having all the competencies required to do the job successfully.

Your commitment, your time

TEMOL has been designed to be as flexible as possible for the student. You can start the course at any time and work through the materials at your own pace. The only restriction is a £150.00 tutor charge if you take over 18 months to complete the course.

David Lively MEI, is an Estates Officer at a large acute Teaching Hospital in the Midlands area and Member of the Energy Institute since 2003:

'I chose to study this course in order to broaden my knowledge within the energy field. Part of the training was to complete a project on a chosen subject; enabling me to identify the key areas where energy costs and carbon dioxide emissions could be saved.

I enjoyed completing the TEMOL course and project, which definitely taught me methods to broaden my knowledge in energy management. It also gave me the opportunity to enhance my skills in report writing.

Once I had completed the project I was left with a feeling of pride and a job well done. I looked forward to presenting my work to my manager and endeavoured to put into practice the recommendations for major energy savings identified whilst completing my project (which were in the region of £60k, grossing a reduction of some 2,000 tonnes of CO₂ emissions!).'

TEMOL Course costs

Full Course:

EI Member price: £1550 (+ VAT)
Non-member price: £1780 (+ VAT)

Includes:

- 14 paper based elements
- 7 assignments
- A year of free EI membership
- Tutor support
- Marking and moderation of 7 assignments and project

Single element:

EI Member price: £120 (+ VAT)
Non-member price: £150 (+ VAT)

Includes:

- 1 paper based element

Payment for the full course can be made in two installations, the first of £1,000 and the second of £550. (+VAT)





Online workshops – new for 2010:

Newly developed for 2010, the EI is designing a series of online workshops. Ideal for busy members of staff with a responsibility for energy management, these short, manageable, recorded seminars will provide specific practical knowledge in key areas. Our "How To..." section will focus on explaining particular aspects of energy management, helping to gain vital information without leaving the office.

An Introduction to energy management

This workshop provides an overview of energy management, helping the participant gain an understanding of the key issues that need to be considered and their place within the successful management of their organisation.

How to...

- **Hire the right energy consultant for your organisation**

With the current deficit of experienced in-house energy management staff it is vital that organisations employ external support so that they can be sure that they both comply with all up coming rules, regulations and standards relating to energy use. An energy consultant can evaluate the existing situation, assess potential improvements, make recommendations and develop systems for effective energy management in the future. This workshop will help explain the key priorities when hiring a consultant, how to assess your needs, how to go through to tendering process and how to avoid the pitfalls in hiring a consultant.

- **Analyse an energy bill**

Energy billing can appear complex and intimidating and yet bills are often paid without giving due consideration to their content. This workshop will demystify the process of analysing energy bills ensuring the parameters are understood and saving money for your organisation!

- **Calculate your carbon footprint**

Aimed at introducing the different types of footprint and the various methodologies that can be applied. The details of the carbon footprinting process are explained with simple guidance on the 'standard green house gas protocol' approach as applied internationally.

Online workshop rates:

EI Member: £100 (+ VAT)

Non-member: £125 (+ VAT)

Workshops will be available at any point.

Please check the EI's energy management training page at www.energyinst.org.uk/em for more details.

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European energy manager qualification

Eurem is designed as a comprehensive technical overview of energy management, providing participants with the tools to develop and manage energy management projects. It comprises 12 days of training at the Energy Institute head office. Attendance on the course is backed up by practical application of the learning through a work-based feasibility study which is then supplemented by an exam.

Eurem includes:

- 12 days of energy management training at the EI's head office, led by subject experts
- Preparatory material and slides from training sessions
- Exercise spreadsheets from training sessions, designed for use at your organisation
- Tutor supervision and support for work-based feasibility study
- Exam assessment leading to the European Energy Manager Qualification

Student profile

The training is aimed at professionals responsible for managing energy within their job function and with who are tasked with improving energy efficiency and reducing energy costs. Delegates should be experienced energy professionals who would like to learn more about all aspects of an energy management role and gain a professional qualification.

Assessment

The qualification is assessed based on two areas:

1. Feasibility study for a project, along with presentation of project to a panel
2. Examination

Qualification

On successful completion of the course, students are awarded the **European Energy Manager qualification** demonstrating essential energy management competencies, and the ability to develop a successful energy project.

Course topics;

- Energy and emissions law and trading
- Energy costs and project management
- Energy data/load management
- Energy from biomass and solar
- Energy fundamentals
- Heating
- Process heat, steam, heat recovery
- Cogeneration/CHP
- Air conditioning
- Refrigeration
- Electrical engineering and electrical drives
- Lighting
- Compressed air
- Energy in buildings

Learning outcomes

As a result of the training participants will be able to:

- Analyse any given energy situation;
- Develop energy saving projects;
- Illustrate the return on investment to management;
- Initiate and co-ordinate appropriate projects;
- Evaluate and monitor financial savings;

Dates:

Eurem runs yearly from July to February. Please visit the EI energy management training website at www.energyinst.org.uk/em for our Eurem page, for information regarding 2010 dates.

Course costs:

EI Member price: £2800 (+ VAT)
Non-member price: £3000 (+ VAT)



Bespoke training

Bespoke training

The Energy Institute has extensive experience of designing and delivering tailored programmes for energy managers, technicians, maintenance staff and others who hold energy-related positions. Whatever your training needs the Energy Institute can develop a training package to meet your individual specifications.

We can provide a training venue or can visit your organisation and provide expert trainers to help develop the skills of your workforce.

We have provided bespoke training for a variety of organisations:

- Carillion Facilities Management
- Islington Council
- IMServ
- Westminster Council
- Trand Controls
- Calor Gas
- TAC

For more information or to get a bespoke training quote, please contact wsadler@energyinst.org

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