

Energy management training portfolio



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 2011 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

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 ISO 50001 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

Martin Fry is a Royal Academy of Engineering Visiting Professor at City University in London as well as being council member 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 ISO 50001 standard.



For further information please contact the EI Training team
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or visit the EI website
www.energyinst.org

Energy Institute
61 New Cavendish Street
London W1G 7AR, UK



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 in London and around the UK, this course 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.

The Certificate in Energy Management Essentials includes:

- 5 days of training led by the Energy Institute's expert trainer, Trevor Floyd
- Electronic support material, including an extensive catalogued collection of good practice guides etc
- A course pack of slides for each presentation
- A tutor led tour of a plant room, helping to demonstrate energy auditing in practice
- Exam and coursework based assessment, leading to the *Certificate in Energy Management Essentials*

Student Profile

This course is aimed at professionals who have recently taken up a role with energy management responsibilities, or any responsibility for energy costs and want a practical introduction to the subject. Delegates will normally have 0-2 years of experience.

Assessment

- End of week open book exam (75%)
- Follow up audit report (25%)

Qualification

On successful completion of the course, students are awarded the *Certificate in Energy Management Essentials*, demonstrating an understanding of energy management principles.

Course topics include:

Metering monitoring and targeting
Standards and regulation
Regulation and renewables
Practical energy auditing
Staff awareness

Learning outcomes

As a result of the training participants will:

- Understand the principles behind energy management, including how to monitor your
- Have a picture of current regulations and grants available
- Know about energy management standards and their implementation
- Have experience of touring a plant room and assessing possible energy saving measures
- Have experience of completing an audit report on their own organisation

Dates:

Courses will be running throughout the year. To find the next course nearest to you, please visit: <http://www.energyinst.org/training>

Costs:

EI Member price: £1100.00 (+ VAT)
Non-member price: £1250.00 (+VAT)

Introduction to Microgeneration

Set at the groundbreaking CEREB centre - demonstrating renewable energy at work and how to implement small scale renewables within your organisation.

Eurem includes:

- Get a practical overview of the utilisation of small scale renewables
- See pv panels, fuel cells and many other technologies in action
- Find out about essential planning issues, current government legislation and grants available
- Start planning how to implement changes and improvement in your organisation with support from our expert speakers

Student profile

If you're thinking about integrating renewable technologies in your organisation or just want to know more about smaller scale renewable energy then this course is for you.

Learning outcomes

By the end of this course you will have:

- Knowledge of a range of renewable technologies and have seen these in action
- An understanding of the planning and legislative issues associated with installing renewable technologies
- The ability to identify opportunities for future installations or improve current installations in your organisation

Cost

Member:	£355.00
Non-member:	£470.00

Training in Energy Management through Open Learning (TEMOL)

Distance Learning

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*
- A year's free energy institute membership



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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. Delegates normally have 0-3 years of experience.

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

David Lively MEI, is an Estates Officer at a large acute Teaching Hospital in the midlands area and Affiliate 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: £1550.00 (+ VAT)

Includes:

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

Payment for the full course can be made in two installments, the first of £1,000 and the second of £550.

Single element:

EI Member price: £120.00 (+ VAT)

Non-member price: £150.00 (+ VAT)

Includes:

- 1 paper based element





European energy manager qualification

Eurem is designed as a comprehensive technical overview of energymangement, 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 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 fundamentals
- Heating
- Process heat, steam, heat recovery
- Cogeneration/CHP
- Air conditioning
- Refrigeration
- Metering, Monitoring & Targeting
- 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 2012 dates.

Course costs:

EI Member price: £2800.00 (+VAT)
Non-member price: £3000.00 (+VAT)

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Bespoke Training

The Energy Institute has extensive experience of designing and delivering tailored programmes for energy managers, technicians, maintenance staff and others who affect their organisation's energy usage. Whatever your training needs the Energy Institute can develop a training package to meet your individual specifications.

Training for energy staff

The EI can provide expert training at any level for staff that are responsible for the management of energy within your company. This may include monitoring energy use, implementing energy saving projects, or conducting energy audits specific to your working environment.

Energy awareness for all staff

It is not just energy managers that affect your company's energy usage – all staff can play their part. If you would like some basic awareness raising training for your staff the EI will provide you with a programme which highlights the importance of saving energy and gives guidance on practical ways that all staff members can make a difference.

How we work

We will agree a set of learning outcomes with you based on your organisational needs. Our expert trainers will then design a practical and interactive programme for your staff focusing on the skills and knowledge they need to make changes in the workplace. All delegates will be provided with a certificate of attendance.

Our trainers can visit your organisation or we can arrange a training venue if preferred.

Our clients

We have provided bespoke training for a variety of organisations in the past. **These include:**

- Invest Northern Ireland
- Carillion Facilities Management
- Islington Council
- IMServ
- Westminster Council
- Trend Controls
- Calor Gas
- TAC

For more information or to get a bespoke training quote, please contact the EI Professional Development team:

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Chartered energy manager

Take your professionalism to the next level – get chartered.

Undertaking energy management training can help you fulfil the professional development requirements to becoming a Chartered Energy Manager. This title is exclusively available through the Energy Institute. It can provide chartered recognition for an established group of individuals who, until now, may have been excluded from other forms of professional recognition.

Only available through the EI, the Chartered Energy Manager title will support and recognise professional practitioners who manage energy to reduce use, increase efficiency and reduce carbon emissions.

This title will enable individuals undertaking professional development to achieve the highest standards of competence and commitment.

As the management of energy and the move towards a low carbon economy becomes a major priority in the UK and internationally, in order to meet the challenges posed by climate change, it is important to be able to provide a recognised award to those qualified in energy management. This will enhance public confidence in the activity and reassure consumers (both business and domestic) that they are obtaining quality advice and service.

Chartered Energy Manager is the ideal opportunity to demonstrate your professional status through formal recognition of your skills. Chartered status is a visible mark of quality and can offer a significant edge in today's competitive environment.

Go to this page of our website for guidance notes and an application form:
<http://www.energyinst.org/documents/525>

For more information on all EI membership grades and chartered titles available, visit www.energyinst.org or email membership@energyinst.org



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