

## Certified Energy Auditor Training

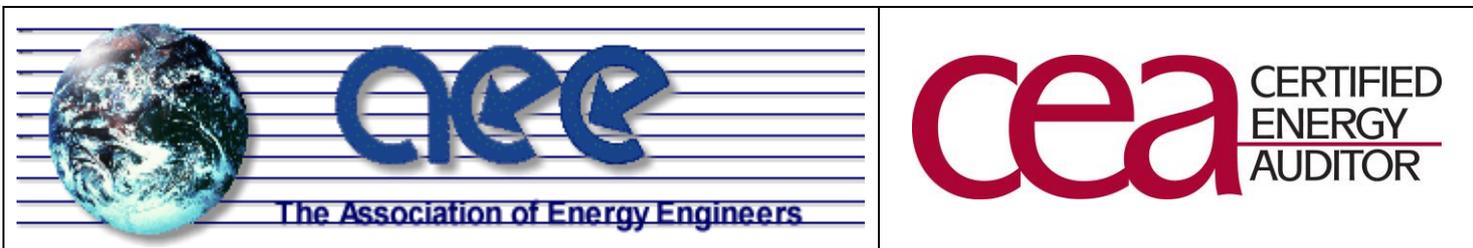
The Certified Energy Auditor is an individual who evaluates and analyses how energy is being used in a facility, identifies energy opportunities, and makes recommendations where consumption can be reduced or optimized.

The aim of this course is to prepare individuals for taking the AEE Certified Energy Auditor Examination

The Certified Energy Auditor qualification is a route to becoming an ESOS accredited auditor in the UK and to becoming a registered energy auditor in Ireland with SEAI for the registered energy auditor scheme.

The CEA is also widely recognized as a truly international energy auditing qualification.

The CEA® qualification is awarded by the Association of Energy Engineers®, headquartered in the USA, with chapters in 77 countries worldwide.



### Objectives:

- To raise the professional standards of those engaged in energy auditing
- To improve the practice of energy auditors by encouraging energy auditing professionals in a continuing education program of professional development
- To identify persons with acceptable knowledge of the principles and practices of energy auditing through completing an examination and fulfilling prescribes standards of performance and conduct
- To award special recognition to those energy auditing professionals who have demonstrated a high level of competence and ethical fitness in energy auditing
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### Who this training might benefit:

- Those considering certification to Energy Managements Systems: ISO50001/ 2018
- Those seeking to be registered as a ESOS lead assessor or Registered Energy Auditor
- Engineering Managers
- Facility Managers
- Energy team member
- Energy Managers
- Energy Team Leaders
- Commissioning personnel.
- Design Engineers
- Senior Technicians
- Energy Consultants

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### **The CEA training is presented in a number of different ways:**

1. 4-day public course presented by Target Energy at any location in various formats, e.g. 2x 2 day.
2. In an industrial setting where the course is contracted by an individual organization.
3. In an online format (presented over Webex) with an online examination.

The course is presented in a lecture and discussion format, with an open book 4 hour examination on completion.

### **Course Content**

- Types & sources of energy
- Laws of conservation of energy
- Energy units
- Energy end use
- Energy tariffs & energy bills
- Types of audits
- Reasons for audits and audit process
- Establishing the energy balance
- Understanding electrical energy
- Understanding thermal energy
- Understanding mechanical energy.
- Control of energy systems
- Assessment of Significant energy use
- Analysing energy data
- Analyzing energy performance
- Verification of energy improvements
- Funding of energy improvements
- Audits of industrial/ process areas
- Management of the audit process

### **Entry Requirements**

A delegate wishing to achieve CEM certification must have:

- Four years engineering degree coupled with three years energy auditing or related experience **or**
- Four years un- related degree coupled with four years energy auditing or related experience **or**
- Two years technical degree (Level 6 on the National Framework Qualification) coupled with five years energy auditing or related experience (Engineering related Certificate qualification or time served electrician/ fitter) **or**
- Ten or more year's documented and verifiable energy auditing or related experience - backed up with letters from employers.

Where an individual meets the pre-qualification, experience, and required examination mark, the CEA qualification will be awarded by the Association of Energy Engineers.

### **Tutor**



Ian is an experienced energy professional and trainer that has trained hundreds of energy professionals worldwide. A Chartered Engineer, qualified electrical engineer with a masters degree in sustainable energy, Ian is a former president and current Board Member of the Association of Energy Engineers, (AEE), is a member of the Efficiency Valuation Organization (EVO) strategic advisory board, an active member of ISO TC301 (the technical committee responsible for developing ISO 50001) and owner of Target Energy. He has delivered energy training, audits and consultancy in fifteen countries worldwide and an acknowledged expert and auditor to the International energy management standard ISO 50001.