



ISO 50001:2018 ENERGY MANAGEMENT SYSTEMS LEAD AUDITOR TRAINING COURSE

COURSE DESCRIPTION

This course is certificated by the Chartered Quality Institute (CQI) and International Register of Certificated Auditors (IRCA). CQI / IRCA Course Certification Number, 2142 – PR 366.

The objective of this course is to provide learners with the knowledge and skills required to perform first, second and third party audits of Energy Management Systems (EnMS) against ISO 50001:2018, in accordance with ISO 19011 and ISO 17021, as applicable.

COURSE CRITERIA

UPON COMPLETION OF THIS COURSE, LEARNERS WILL BE ABLE TO:

- Describe the purpose of an EnMS, EnMS standards, EnMS audit and third-party certification;
- Explain the role of an auditor to plan, conduct, report and follow up an EnMS audit in accordance with ISO 19011 and ISO 17021-1 where appropriate;

- Plan, conduct, report and follow up an audit of an EnMS to establish conformity (or otherwise) with ISO 50001:2018 and in accordance with ISO 19011 (and ISO/IEC 17021-1 where appropriate).

Learners will need to demonstrate acceptable performance in all areas to complete the course successfully.

PRIOR KNOWLEDGE

This course is not intended to be an implementer's course, one that will create an expert in energy management legislation, or one that will train to an acceptable standard a learner with no prior knowledge of the standard or an EnMS.

Before starting this course, learners are expected to have the following prior knowledge:

- Management systems
 - The Plan, Do, Check, Act (PDCA) cycle;
 - The core elements of a management system and the interrelationship between leadership and commitment, energy policy, planning, operation, performance evaluation, management review and continual improvement.

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COURSE DURATION: 40 hours
DELIVERY METHODOLOGY: VILT
COURSE LANGUAGE: English
ACCREDITATION: CQI/IRCA

COURSE CERTIFICATION

Learners who pass both the examination and continuous assessment will be issued with a "Certificate of Achievement" that satisfies the formal training for an individual seeking certification as a CQI / IRCA auditor/lead auditor. The "Certificate of Achievement" is valid for a period of five years from the date of the last day of the Course for certifying as an auditor with the CQI / IRCA.

Certified by:



- ISO 50001: 2018
 - An understanding of the requirements of ISO 5000:2018 and the commonly used energy management terms and definitions, as given in ISO 50001:2018, which may be gained by completing CQI/IRCA Certified ISO 50001 Foundation (EnMS) Training course (or equivalent).
- Energy Management
 - The principles of fuel combustion, heat transfer and energy flow;
 - The relevant sources of energy regulation, guidelines and standards;
 - The typical methods and technologies for increasing efficiency;
 - Energy measurement units, sources, costs, tariffs and scheduling;
 - Energy use data analysis methods;
 - Energy performance indicators, monitoring and performance measurement;
 - The impact of organisational processes and equipment on energy efficiency;
 - Electricity use: motors, drives, lighting, computers.

COURSE CONTENT

VILT SESSION 1

- Introduction to Energy Management Systems
- ISO 50001:2018 overview and planning clauses
- Activities

VILT SESSION 2

- ISO 50001:2018 requirements: clause 7, 8, 9 and 10
- Activities

VILT SESSION 3

- Process-based EnMS
- Energy management legislation
- Activities

VILT SESSION 4

- Accreditation, certification and auditor competence
- Audits: definition, principles and types
- Activities

VILT SESSION 5

- Stage 1 audit
- Planning the audit
- Activities

VILT SESSION 6

- Developing the checklist
- Stage 2 audit: conducting the onsite audit
- Stage 2 audit: review of findings
- Role play

VILT SESSION 7

- Activities

VILT SESSION 8

- Case study
- Role play

VILT SESSION 9

- Stage 2 audit: reporting and conclusions; addressing corrective actions
- Activities

VILT SESSION 10

- Case study
- Examination review

1 DAY FACE TO FACE (CLASSROOM BASED WITHIN 180 DAYS OF COURSE START DATE)

- Morning content refresher
- Afternoon final examination