



IRCA ISO 50001 Energy Management System Lead Auditor Course

Course Description

“Energy Management System Auditor/Lead Auditor” course provides participants with the ability to evaluate, monitor and improve the effectiveness of an energy management system (EnMS) based on ISO 50001. This course is based on the principles and practices of effective management systems audits in accordance

with ISO 19011:2011. It includes the requirements of a 3rd party audit process, from developing an audit plan and conducting onsite activities to writing audit reports and following up on actions. Participants gain necessary auditing skills through a balance of classroom presentations, practical role-playing, and case studies.

Learning objectives

Upon completion of this course, participants will be able to:

- Describe the purpose and benefits of an energy management system
- Interpret the requirements of ISO 50001:2011 in the context of an audit
- Explain the purpose, content and interrelationship of ISO 50001:2011
- Summarize the role of law in energy conservation and the requirements of various acts and rules applicable in the industry sector
- Explain the role of an auditor to plan, conduct, report, and follow up on an energy management system audit in accordance with ISO 19011:2011
- Plan, conduct, report and follow up on a EnMS audit based on good process identification, sampling, and questioning techniques
- Manage an EnMS systems audit

Who Should Attend?

The intended audience for this course includes:

- Energy Managers
- Energy Managers/Coordinators
- Energy auditors
- Facilities/Plant Managers
- Environmental or Quality Managers
- Environmental auditors
- Management representatives
- Consultants
- Individuals interested in conducting first-party, second-party, and/or third-party audits of an energy management system

Pre-requisites recommended

Participants are expected to have some knowledge or experience related to

- understanding of the relevant EnMS issues/legislation appropriate to their industry or sector
- demonstrate understanding of principles of fuel combustion, heat transfer, energy flow
- energy measurement units, sources, costs, tariffs
- energy use data analysis methods
- energy use, performance and efficiency principles

Course Contents

- Energy Management principles
- PDCA philosophy for EnMS
- Role of top management for EnMS
- Energy policy
- Legal requirements related to EnMS
- Energy review, baseline, EnPIS, Energy objectives and targets
- Communication
- Documentation requirements
- Control of operations impacting energy performance including design and procurement activities
- Monitoring, measurement and analysis of the EnMS
- Audits and review
- Audit planning and preparation
- Conduct of EnMS audits
- Audit reporting
- Follow up and close out



Certification:

IRCA certificate of successful completion of the course will be issued to those participants who satisfactorily complete the continuous assessment and written examination. However, participants who do not qualify either in continuous assessment or the written examination will be given certificate of attendance only. Such delegates can re-sit in any subsequent written examination within a period of 12 months from the date of this examination subject to condition that he/she has satisfactorily completed continuous assessment. A delegate failing in continuous assessment has to attend the complete course again.

Duration: 05 days

Trainer Profile

Naveen Kaushal



Naveen Kaushal Masters in Engineering-Manufacturing Technology from Thapar University, Patiala, Punjab, India. He has worked in the following companies:

Micron Instruments Pvt. Ltd. - Engineering industry, defence armaments and X-ray Tube Insert parts for health care industry. Customers included BAE Systems UK, Junghans Germany and GE Healthcare USA. Production, process control, process planning, semi-automatic and automatic machines, shop floor management, materials management, production planning and implementation of in-process controls. Main processes were stamping on power and hydraulic presses, machining on semi-automatic, automatic and CNC machines, stamping, sub assembly and assembly, metal finishing processes of tin plating, nickel plating, anodizing, passivation and painting. Quality Manager, including Internal Audits & complete documentation of QMS, manufacturing processes, all working procedures, metrology, use of inspection, measuring & test equipment, process control documentation, statistical sampling by variable & attributes, AQL tables, Continuous Improvement Plan, SQC, SPC and data analysis. Project Leader for export of medical X-ray tube components to USA, estimating and costing, response to RFQ enquiries, cost reduction techniques, product development, process planning, capacity verification and optimum utilisation, scheduling, export documentation, and corrective/preventive action implementation.

Intertek Moody International Certification India Ltd. - Sr. Mgr (Audits & Training), Lead Auditor ISO 9001, ISO 14001, OHSAS 18001 and Certified Auditor for CE Marking. Lead tutor for Quality Management Systems (ISO 9001), Environment Management Systems (ISO 14001), Occupational Health & Safety Management Systems (OHSAS 18001) and Energy Management Systems (ISO 50001). Have managed and conducted more than 650 third party audits for these standards. Major organisations visited include ONGC, Vardhman, Sonalika, Hindustan Petroleum, Indian Oil, UBI, BOB, Canara Bank, SAIL, Northern Railway, Ceasefire, Maxima Watches, Markfed, HFCL, Milkfood, Jai Laxmi Cement, Bhushan Steel, Toyota dealerships, Wolkem group, Nectar Lifesciences, Jotun Paints in India and UAE.

More than 425 days of trainings including those of Steel Authority India Ltd., International Tractors, Reliance Infra, Oil and Natural Gas Corporation, Hindustan Petroleum Corporation, Northern Railway, Asian Paints, Fidelity International, Jotun Paints and others. Many international assignments in the UAE and Qatar, including open house and in-house company courses. Assignments for energy trainings include facilitators' training courses for Society of Energy Engineers and Managers, India at various locations and Micro Inks Ltd., India including energy usage and consumption; presentations and case studies on energy conservation and management related to usage and consumption of oil, gas, iron and steel, electricity, and related emissions to air, water and land, and auditing practices.