



Alkhebra Consulting, LLC

Engineering, Enviroment, Education, Research

الخبرة للإستشارات ذ.م.م.
هندسة، بيئة، تعليم، بحوث

Energy Management System- Learning Series

Course Title: ISO 50001:2018 EnMS – LEAD AUDITOR TRAINING

Course Duration: Five Days (9.00am- 4.00pm)

Course Description:

This course is design to explain all the requirements of ISO 50001:2018 to help in the implementation and auditing of an Energy Management System with the knowledge and skills required to perform first, second and third-party audits of EnMS against ISO50001, in compliance with ISO 19011 and ISO/IEC 17021-1 certification process

The course discusses key elements of ISO 50001 like Energy efficiency policy, identification and review of significant energy aspects and related factors, energy consumption and its related factors, energy consumption forecast, Treatment of consumption accident, metering plan, Awareness, training and competence for energy management, legal obligations and other requirements, and Completeness of Management Reviews - all these are discussed in the lessons of this course.

Course objective:

1. To understand the fundamentals of Energy Management System and all standard clauses requirements of ISO 50001:2018.



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2. With reference to the PDCA cycle, explain, analyze and implement the process-based environmental management system model for ISO 50001:2018 and the role of a system audit in the maintenance and improvement of EMS.
3. Explaining the role and responsibilities of an auditor to plan, conduct, report and follow-up an EnMS audit in accordance with ISO 19011 and ISO/IEC 17021, as appropriate.
4. To plan, conduct, report and follow-up an audit of an Energy Management system to establish conformity or non-conformity with ISO 50001:2018, and in accordance with ISO 19011 and ISO/IEC 17021 where appropriate.
5. Explain the purpose and use of Annex SL Appendix 2 and describe a generic management system
6. Communicate the requirements relating to Context, Leadership, Planning, Support and Operation, in Annex SL Appendix 2

Course content:

1. Introduction and Overview of ISO 50001:2018
2. Auditing Energy performance
3. Audit roles, responsibilities and principles
4. Audit planning
5. Audit methods and techniques
6. Conducting opening and closing meeting
7. Identify non- conformities and positive findings
8. Report the audit finding.
9. Follow-up the Audit



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Course benefits:

On completion of this EnMS training course you will be able to:

1. Explain the purpose of ISO 50001 and the benefits to an organization of using the Standard
2. Outline key concepts and approaches to an energy management system
3. Describe, with reference to Plan – Do – Check – Act cycle, the structure, scope and purpose of ISO 50001
4. Outline key ISO 50001 definitions and terminology
5. Briefly summarize relevant energy management legislation
6. Identify sources of law and sources of information on energy management legislation
7. Describe the principles, processes and techniques used for the assessment of risk and the significance of these in all energy management systems
8. Outline and interpret the requirements of the ISO 50001 management systems specification in the context of an audit
9. Effectively plan and conduct an audit of the management and operation of an organization in accordance with the requirements of relevant EnMS audit criteria
10. Report the audit, including writing valid, factual and value-adding nonconformity reports
11. Undertake audit follow-up activities, including evaluating the effectiveness of corrective and preventive action



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Instructor:

Samantha Kumarasena

A resource person having wide experience in advisory and capacity building in the fields of Environmental sustainability, Safety and Textile Engineering; A Cleaner Production expert with active involvements in industry.

PROFESSIONAL QUALIFICATIONS

- Cleaner Production Auditor & Trainer (Trained under UNIDO)
- Energy Auditor (Trained and certified by Sri Lanka Sustainable Energy Authority)
- Lead auditor for ISO 14001 Environment Management System, ISO 50001 Energy Management System, ISO 9001 Quality Management System and OHSAS 18001 Occupational Health & Safety Management System
- Certified Trainer of Chartered Institute of Environment and Health (CIEH), UK
- Assessor for certifying bodies and inspection bodies in Sri Lanka under Sri Lanka Accreditation board (SLAB) • Chartered Environmentalist under Institute of Environmental Professionals Sri Lanka (IEPSL)