

Lead Auditor Training on Artificial Intelligence Management System based on ISO/IEC 42001:2023

Course Objective:

- Understand the basics of AI and ML
- Understand the framework and apply the standard for managing risk and opportunities
- Demonstrate responsible use of AI
- Establish traceability, transparency and reliability
- Enable cost savings and efficiency gains

Course Curriculum

- What is Artificial Intelligence (AI)?
- What is Machine Learning (ML)?
- The concept of data science
- AI concepts and terminologies
- How AI becomes disruptive, Gen AI and discriminative AI Regulatory stipulations, transparency needs
- Ethical use of AI
- What is the ISO/IEC 42001:2023 standard?
- Applicability of the standard
 - Benefits
 - Responsible use of AI Efficiency factors
 - Risk-based approach traceability, transparency and reliability
 - Clauses and requirements
- ISO 22989:2022 standard
- ISO/IEC 23053:2022 standard - Framework for Artificial Intelligence (AI) Systems Using Machine Learning (ML)
- ISO/IEC 23894:2023 standard - Artificial intelligence - Guidance on risk management
- Case studies and exercises
- Introduction to ISO/IEC 42006:2024 (Currently in DIS stage)
- Auditing principles
- Conflict of interest
- Structural requirements
- Resource requirements for conducting AI audits
 - For application review
 - For audit report review
 - For making certification decisions
 - For making decisions on appeals
- Information requirements
 - AIMS certification documents

- Process requirements
 - Audit programme
 - Audit methodology
 - Audit time
 - Sampling
 - Combined audit
- Audit planning
 - Audit objectives
 - Audit criteria
 - Audit plan for AIMS
- Initial certification
 - Stage 1 audit
 - Stage 2 audit
- Conducting audits
 - Specific elements of AIMS audits
 - Audit reporting
- Certification maintenance
- Surveillance audits
- Recertification audits
- Special audits

Pre-Requisites

- Any Management System LA certificate
- Understanding of data analysis, data science concepts

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