

Lead Implementer Training Program on Artificial Intelligence Management System (AIMS) based on ISO/IEC 42001:2023

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COURSE DESCRIPTION

The international standard ISO/IEC 42001 (the world's first AI management system standard) specifies the requirements for establishing, implementing, maintaining, and continually improving an Artificial Intelligence Management System (AIMS) within organizations. It is designed for entities providing or utilizing AI-based products or services, ensuring responsible development and use of AI systems and providing guidance for this rapidly changing technology field. It addresses the unique challenges AI poses. It sets out a structured way to manage risks and opportunities associated with AI, balancing innovation with governance. You will be able to learn how an organization can build an artificial intelligence management system in a structured manner to deal with the use of AI-based systems, develop such a system or deliver services using AI-based systems meeting the requirements specified in ISO/IEC 42001:2023 standard. You will also learn how to manage AI-related risks systematically.

AUDIENCE PROFILE

- AI Developers, AI Operators
- Business Function Managers
- Quality Managers
- Business Excellence Professionals
- Information Security Professionals
- Consultants
- AI Service Vendors
- Any AI Stakeholder, in any manner
- Management System Auditors

PREREQUISITES

- An understanding of data science and information management will help.

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- Get introduced to AI and ML and how they impact lives and organisations today
- Understand the need to have a systematic approach to the use of AI in an organisation

- Understand the elements to be taken care of when an organisation is using AI for their business activities
- Discover the needs of a practitioner when an organisation is using AI-based system
- Understand the impact of AI on data privacy and how to deal with privacy issues related to AI

COURSE OUTLINE

Module 1

- Introduction to Artificial Intelligence (AI)
- Introduction to Machine Learning (ML)
- The concept of data science

AI concepts and terminologies

- Generative AI
- Discriminative AI
- Understand how AI becomes disruptive
- AI considerations
- Regulatory stipulations
- Transparency needs
- Introduction to ISO/IEC 42001:2023 standard Applicability of the standard
- Relationship between Information Security, Data Privacy and AI
- Benefits
- Responsible use of AI
- Efficiency factors
- Risk-based approach
- Traceability, transparency, and reliability
- Clauses and requirements
- ISO/IEC 22989:2022 standard – key terms explanation
- 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
- ISO/IEC 42001:2023 Implementation steps
- Case studies and exercises