ISO42001 Lead Implementer

Course Duration: 40 Hours **Course code: ISO42001**

1. Course Overview

This course provides participants with the knowledge and skills required to implement and manage an Artificial Intelligence Management System (AIMS) based on ISO/IEC 42001:2023. It covers AI governance, risk management, ethical considerations, and operational controls to ensure trustworthy, transparent, and responsible AI implementation in organizations. Participants will gain practical insights into establishing, maintaining, and continually improving an AIMS.

2. What you'll learn?

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

- Understand the structure and principles of ISO/IEC 42001
- Interpret requirements for establishing an AIMS
- Plan and implement AI governance frameworks within organizations
- Conduct AI risk assessment and risk treatment planning
- Manage compliance, transparency, and ethical AI principles
- Implement monitoring, measurement, and continual improvement processes
- Prepare for an ISO/IEC 42001 Lead Implementer certification audit

3. Target Audience

- AI project managers and implementers
- IT and data governance professionals
- Risk and compliance officers
- Data scientists and AI engineers involved in governance
- Consultants implementing AI governance frameworks

4. Pre-Requisites

Familiarity with:

- Basics of AI/ML concepts and applications

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- ISO management system standards (ISO/IEC 27001, ISO 9001 preferred)
- Governance, risk, and compliance fundamentals

5. Course content

Module 1: Course Introduction

- Introduction to the course
- Overview of ISO/IEC 42001 standard
- Key definitions and terminology

Module 2: Fundamentals of ISO/IEC 42001

- Scope and objectives of the standard
- AI governance and ethical considerations
- Structure of AIMS based on Annex SL
- Relationship with other standards (ISO/IEC 27001, ISO 31000, ISO 9001)

Module 3: Planning an Artificial Intelligence Management System (AIMS)

- Understanding organizational context
- Stakeholder identification and engagement
- Defining scope and AI use cases
- Establishing leadership and roles

Module 4: Risk and Opportunity Assessment in AI

- AI risk management principles
- Data quality, bias, and fairness risks
- Security and privacy considerations
- AI impact assessment and compliance

Module 5: Establishing AI Governance Policies

- Policy framework for AI management
- Ethical AI principles (transparency, accountability, explainability)
- Documentation requirements

- Internal communication and awareness

Module 6: Implementing AI Management Controls

- Operational planning and control
- Integrating AI governance into business processes
- Supply chain and third-party management in AI systems
- Technical and organizational safeguards

Module 7: Monitoring, Measurement, and Evaluation

- Performance monitoring for AI models
- Metrics and KPIs for AIMS
- Internal audits for AI governance
- Corrective actions and continual improvement

Module 8: Incident and Nonconformity Management

- Identifying and reporting AI-related incidents
- Handling nonconformities
- Root cause analysis for AI failures
- Response and recovery strategies

Module 9: Preparing for AIMS Certification Audit

- Certification audit process overview
- Evidence collection and audit preparation
- Roles and responsibilities during an audit
- Common challenges and solutions

Module 10: Case Studies and Practical Workshops

- Real-world AI governance scenarios
- Hands-on exercises in risk assessment
- Policy drafting workshop
- Mock implementation planning session

Module 11: Course Wrap-Up

- Summary of key concepts
- Further learning and professional development

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