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AI Risk Management

Course No. 512

ISO 42001 is the first international standard for Artificial Intelligence Management Systems (AIMS). AI is important because it transforms how we live, work, and solve problems.

Course Benefits

This course equips professionals with practical tools and frameworks to identify, assess, and mitigate risks associated with artificial intelligence systems. Based on the NIST AI Risk Management Framework (AI RMF) and aligned with emerging global standards, the course equips professionals with the competencies to ensure responsible, secure, and ethical AI deployment.

Prerequisites

Basic knowledge of AI/ML concepts.

Duration

Three Day (21 hours)

Learning Objectives

At the end of this course, attendees will be able to:

1. Understand the principles of AI risk and its lifecycle
2. Apply the NIST AI Risk Management Framework (AI RMF)
3. Identify and evaluate technical, ethical, and societal risks in AI systems
4. Design and implement AI risk controls and governance mechanisms
5. Integrate risk management into AI system development and deployment processes

Topics Covered:

- Introduction to AI Risks
 - What makes AI risky? Technical, ethical, legal, and societal aspects
 - Case studies of AI risks incidents and failures
- Frameworks for Risk Management
 - Overview of NIST AI RMF
 - ISO 23894- AI Risk Management
 - EU AI Act risk classification
- AI Risk Lifecycle
 - Risk identification and categorization
 - Inherent vs. residual risk in AI
 - Mapping risk to AI system lifecycle stages
- Risk Mitigation Strategies
 - Explainability, robustness, fairness, and privacy-by-design



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- Human oversight and fallback planning
- Bias detection, testing, and validation methods
- Governance and Documentation
 - Roles and responsibilities for AI risk management
 - Documentation, transparency, and audit readiness
 - Incident response and continuous monitoring
- Practical Applications
 - Hands-on risk mapping exercises
 - Creating AI risk registers and heatmaps
 - Real-world case walkthroughs

Who Should Attend?

This course is ideal for AI project managers and engineers, risk and compliance professionals, data scientists and ML practitioners, IT governance, audit, and assurance personnel, legal and ethics officers involved in AI oversight, policymakers and consultants in AI strategy and governance.

Instructor

The instructor is a professional with 10+ years of AI and Risk Management experience.

For More Information:

Contact Training administrator: Training@qpsinc.com , Telephone: (508) 786-0777