Training Course on Mastering Artificial Intelligence Standards and Risk Management Frameworks (RMF)

Professional Development Training Course Outline

Category	Artificial Intelligence And Block Chain	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The rapid proliferation of Artificial Intelligence (AI) across diverse sectors underscores the critical need for robust AI standards and effective risk management frameworks (RMF). Training Course on Mastering Artificial Intelligence Standards and Risk Management Frameworks (RMF) offers an in-depth exploration of essential principles, guidelines, and methodologies for ensuring the responsible and secure development and deployment of AI technologies. By understanding the nuances of AI governance, navigating the landscape of AI compliance, and implementing proactive AI risk mitigation strategies, professionals can foster trust, drive innovation, and minimize potential harms associated with AI systems. This course is meticulously crafted for technology leaders, risk managers, legal and compliance professionals, AI developers, and anyone involved in the lifecycle of artificial intelligence.

In today's dynamic regulatory environment, a comprehensive grasp of AI regulatory frameworks and the ability to conduct thorough AI risk assessments are paramount for organizational success and societal well-being. This course integrates the latest thinking on ethical AI practices, AI security, and AI accountability, providing learners with practical skills to establish resilient and trustworthy AI implementations. Through a combination of self-paced learning and interactive live sessions featuring real-world case studies and practical exercises, participants will gain the expertise to champion AI assurance and contribute to the responsible advancement of artificial intelligence.

Programme Curriculum

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Learning Objectives

1. Define and categorize key AI standards and their significance in the industry.
2. Analyze various AI governance frameworks and their practical application.
3. Master the methodologies for conducting comprehensive AI risk identification.
4. Develop and implement effective AI risk assessment and analysis techniques.
5. Understand and apply principles of ethical considerations in AI development.
6. Implement best practices for ensuring AI data privacy and security protocols.
7. Navigate the evolving landscape of AI regulations and legal compliance.
8. Establish and maintain robust AI accountability and transparency mechanisms.
9. Utilize relevant AI compliance tools and auditing methodologies.
10. Evaluate and select appropriate AI assurance frameworks for specific applications.
11. Understand the role of explainable AI (XAI) in building trust and managing risk.
12. Develop strategies for continuous monitoring and auditing of AI system performance.
13. Foster a proactive organizational culture of responsible AI development and deployment.

Target Audience

1. Technology Leaders and Managers
2. Risk and Compliance Officers

3. Legal and Policy Professionals
4. AI Developers and Engineers
5. Data Scientists and Analysts
6. Information Security Professionals
7. Project Managers involved in AI initiatives
8. Auditors and Quality Assurance Specialists

Course Duration: 10 days

Course Modules

Module 1: Foundations of AI Standards and Governance

- Defining the need for AI standards and frameworks.
- Exploring the historical evolution of AI governance efforts.
- Identifying key stakeholders in AI standardization processes.
- Understanding the relationship between AI ethics and governance.
- Overview of major international and regional AI initiatives.

Module 2: Navigating the Landscape of AI Regulations

- Analyzing key AI regulatory frameworks (e.g., GDPR, AI Act).
- Understanding the legal implications of AI deployment in various sectors.
- Addressing data privacy and security requirements for AI systems.
- Exploring intellectual property considerations in AI development.
- Developing strategies for ensuring ongoing AI regulatory compliance.

Module 3: Principles of Ethical AI and Responsible Innovation

- Examining core ethical principles in AI (fairness, transparency, accountability).
- Identifying and mitigating bias in AI algorithms and datasets.
- Implementing frameworks for ethical AI impact assessments.
- Understanding the societal implications of widespread AI adoption.
- Fostering a culture of responsible AI innovation within organizations.

Module 4: Conducting Comprehensive AI Risk Assessments

- Defining AI-specific risks and their potential impact.
- Establishing methodologies for AI risk identification and analysis.
- Utilizing risk assessment frameworks (e.g., NIST AI RMF).
- Evaluating the likelihood and severity of AI-related risks.
- Documenting and communicating AI risk assessment findings.

Module 5: Implementing AI Risk Management and Mitigation Strategies

- Developing strategies for mitigating identified AI risks.
- Implementing technical and organizational controls for AI risk management.
- Establishing incident response plans for AI-related failures.

- Utilizing tools and techniques for continuous risk monitoring.
- Integrating AI risk management into the system development lifecycle.

Module 6: Ensuring AI Data Privacy and Security

- Understanding data protection principles in the context of AI.
- Implementing anonymization and pseudonymization techniques for AI datasets.
- Securing AI infrastructure and protecting against cyber threats.
- Addressing the challenges of adversarial attacks on AI systems.
- Establishing data governance policies for AI applications.

Module 7: Establishing AI Accountability and Transparency

- Defining accountability frameworks for AI decision-making.
- Implementing mechanisms for tracing AI system behavior.
- Exploring the role of auditability in AI governance.
- Utilizing explainable AI (XAI) techniques for transparency.
- Communicating AI capabilities and limitations to stakeholders.

Module 8: Leveraging AI Assurance Frameworks and Tools

- Understanding the principles of AI assurance and validation.
- Exploring different AI assurance frameworks and standards.
- Utilizing tools for testing, verification, and validation of AI systems.
- Implementing quality assurance processes for AI development.
- Demonstrating the reliability and trustworthiness of AI applications.

Module 9: Explainable AI (XAI) for Risk Management and Trust

- Understanding the need for interpretability in AI models.
- Exploring various XAI techniques and their applications.
- Utilizing XAI to identify and mitigate bias in AI systems.
- Improving stakeholder trust through transparent AI decision-making.
- Integrating XAI into AI risk assessment and management processes.

Module 10: Monitoring and Auditing AI System Performance

- Establishing key performance indicators (KPIs) for AI systems.
- Implementing continuous monitoring of AI model behavior.
- Developing methodologies for auditing AI algorithms and outputs.
- Identifying and addressing performance degradation and drift.
- Ensuring the ongoing reliability and effectiveness of AI applications.

Module 11: AI Standards in Specific Industries (e.g., Healthcare, Finance)

- Examining industry-specific AI standards and regulations.
- Understanding the unique risk management challenges in different sectors.
- Exploring best practices for AI deployment in regulated industries.
- Analyzing case studies of AI implementation in specific domains.

- Adapting general AI standards to specific industry contexts.

Module 12: The Future of AI Standards and Regulatory Landscape

- Exploring emerging trends in AI standardization efforts.
- Analyzing potential future directions in AI regulation.
- Understanding the role of international collaboration in AI governance.
- Preparing for upcoming changes in the AI regulatory environment.
- Contributing to the ongoing dialogue on responsible AI development.

Module 13: Implementing an Organizational AI Risk Management Strategy

- Developing a comprehensive AI risk management policy.
- Establishing roles and responsibilities for AI risk management.
- Integrating AI risk management into existing organizational structures.
- Communicating the importance of AI risk management to all stakeholders.
- Fostering a culture of proactive AI risk awareness and mitigation.

Module 14: Case Studies in AI Risk Management and Compliance

- Analyzing real-world examples of AI risk incidents and their impact.
- Examining successful implementations of AI risk management frameworks.
- Discussing case studies of AI compliance challenges and solutions.
- Learning from best practices in AI governance and ethical deployment.
- Applying course concepts to practical scenarios and challenges.

Module 15: Building a Culture of Responsible AI Development and Deployment

- Promoting awareness and understanding of AI ethics and risks.
- Encouraging cross-functional collaboration on AI governance.
- Establishing training and education programs for responsible AI practices.
- Creating internal guidelines and policies for ethical AI development.
- Fostering a commitment to the responsible advancement of artificial intelligence.

Training Methodology

This course employs a **blended learning approach**, combining the flexibility of self-paced online modules with the engagement of interactive live sessions.

- **Self-Paced Online Modules:** Foundational concepts, theoretical frameworks, and introductory materials will be delivered through engaging online modules, allowing learners to progress at their own pace. These modules will incorporate multimedia elements such as videos, readings, and quizzes to reinforce learning.
- **Interactive Live Online Instruction:** Expert instructors will lead live online sessions focusing on deeper dives into complex topics, real-time Q&A, and interactive discussions. These sessions will provide opportunities for learners to engage with instructors and peers.
- **Hands-on Exercises:** Practical exercises and simulations will be integrated throughout the course to allow learners to apply the concepts and tools learned in a hands-on environment.

This will include case studies and scenario-based problem-solving.

- **Data Interpretation Workshops:** Dedicated workshops will focus on the interpretation of relevant data and the application of analytical techniques for AI risk assessment and compliance.
- **Real-World Case Studies:** The course will incorporate numerous real-world case studies to illustrate the practical application of AI standards and risk management frameworks in diverse industries.
- **Software-Based Simulations for Practical Learning:** Where applicable, software tools and simulations will be used to provide learners with practical experience in applying AI risk assessment and compliance methodologies.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price

23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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