

Training Course on AI Risk Management and Governance Frameworks

Professional Development Training Course Outline

Category	Data Science	Duration	10 Days
Base Fee	\$3,000 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

The rapid proliferation of Artificial Intelligence (AI) across industries presents unprecedented opportunities alongside complex challenges, particularly in **risk management** and **governance**. As AI systems become more sophisticated and integrated into critical operations, ensuring their **safety, ethical deployment, and regulatory compliance** is no longer optional but a strategic imperative. This comprehensive training course is designed to equip professionals with the essential knowledge and practical skills to navigate the evolving landscape of **AI risks**, establish robust **governance frameworks**, and develop effective **policies and processes for AI safety**.

Training Course on AI Risk Management & Governance Frameworks delves into the intricacies of **responsible AI**, emphasizing the critical need for proactive strategies to mitigate potential harms such as **algorithmic bias, data privacy breaches, security vulnerabilities, and unintended consequences**. Participants will learn to identify, assess, and manage AI-related risks across the entire AI lifecycle, fostering **trustworthy AI** implementations. Through practical case studies and interactive exercises, attendees will gain actionable insights into building a resilient AI ecosystem that aligns with emerging **AI regulations** and **ethical AI principles**, ensuring sustainable innovation and organizational resilience in the AI era.

Programme Curriculum

Training Course on AI Risk Management & Governance Frameworks: Developing Policies and Processes for AI Safety

Introduction

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Course Objectives

1. Develop advanced capabilities in identifying and assessing diverse AI-specific risks, including **model risk, data integrity risk, and ethical AI risks**.
2. Construct comprehensive **AI governance frameworks** aligned with leading industry standards and **regulatory compliance** mandates (e.g., NIST AI RMF, ISO/IEC 42001).
3. Formulate practical and actionable **AI safety policies** that address critical areas like **algorithmic fairness, transparency, and accountability**.
4. Apply cutting-edge **AI security best practices** to protect AI systems from adversarial attacks, data poisoning, and unauthorized access.
5. Understand and interpret the nuances of emerging global **AI regulations** (e.g., EU AI Act, US Executive Order on AI) and their implications for organizational practices.
6. Develop strategies and implement tools for detecting and effectively **mitigating algorithmic bias** in AI models and datasets.
7. Integrate **explainable AI (XAI)** techniques to enhance the interpretability and transparency of AI decision-making processes.
8. Design and implement clear **AI accountability** structures and reporting mechanisms within an organization.
9. Master approaches to ensure **AI data privacy** and robust **data security** throughout the AI lifecycle, adhering to global privacy regulations.
10. Create effective **AI incident response plans** to address failures, breaches, or adverse events related to AI systems.
11. Champion the adoption of **ethical AI principles** and responsible innovation within organizational AI initiatives.
12. Perform thorough **AI impact assessments** to evaluate the societal and organizational implications of AI deployment.
13. Develop strategies to build **public trust** and stakeholder confidence in AI systems through transparent governance and risk management.

Organizational Benefits

- Proactively identify and mitigate AI-related risks, safeguarding business operations and reputation.
- Ensure adherence to evolving global AI regulations, minimizing legal and financial penalties.

- Foster trustworthy AI systems that provide reliable insights and support sound strategic decisions.
- Enable faster, safer, and more ethical development and deployment of AI solutions.
- Build confidence among customers, regulators, and the public through transparent and accountable AI practices.
- Differentiate by demonstrating a commitment to responsible AI, attracting top talent and fostering innovation.
- Efficiently allocate resources for AI development and deployment by understanding and prioritizing risks.
- Minimize the costs associated with AI failures, security breaches, and regulatory non-compliance.

Target Audience

1. Risk Managers & Compliance Officers.
2. AI/ML Engineers & Data Scientists.
3. Legal & Governance Professionals.
4. IT Security & Cybersecurity Specialists.
5. Business Leaders & Executives.
6. Product Managers & Solution Architects.
7. Auditors & Assurance Professionals
8. Policy Makers & Regulators.

Course Outline

Module 1: Foundations of AI Risk & Governance

- Introduction to Artificial Intelligence and its transformative impact.
- Understanding the unique risks posed by AI: technical, ethical, societal, and legal.
- Overview of the AI lifecycle and risk touchpoints.
- **Case Study:** The infamous Tay chatbot incident and its implications for ethical AI design.
- Defining AI governance: principles, objectives, and scope.

Module 2: Key AI Governance Frameworks & Standards

- Deep dive into the NIST AI Risk Management Framework (AI RMF).
- Exploring ISO/IEC 42001: AI Management System standard.
- Comparison of leading global AI governance initiatives (e.g., OECD AI Principles).
- **Case Study:** Applying the NIST AI RMF to a financial services AI lending model.
- Developing an organizational AI governance charter.

Module 3: Crafting AI Safety Policies

- Principles of policy development for responsible AI.
- Establishing policies for data collection, usage, and retention in AI systems.
- Defining acceptable use policies for generative AI and large language models (LLMs).
- **Case Study:** Designing a corporate policy for managing the risks of employee use of public LLMs.
- Integrating AI safety policies into existing organizational frameworks.

Module 4: AI Risk Identification & Assessment Methodologies

- Techniques for proactive AI risk identification (e.g., threat modeling for AI).

- Quantitative and qualitative AI risk assessment methods.
- Building an AI risk register and prioritizing risks.
- **Case Study:** Assessing privacy risks in an AI-powered healthcare diagnostic tool.
- Tools and platforms for automated AI risk assessment.

Module 5: Mitigating Algorithmic Bias & Fairness

- Understanding sources of algorithmic bias (data, design, deployment).
- Methods for detecting and measuring bias (e.g., disparate impact).
- Strategies for mitigating bias (e.g., data re-balancing, model debiasing).
- **Case Study:** Addressing gender bias in an AI-powered recruitment system.
- Fairness metrics and ethical considerations in AI development.

Module 6: AI Security: Protecting Against Adversarial Attacks

- Introduction to AI-specific security threats (e.g., data poisoning, adversarial examples, model inversion).
- Defense mechanisms against adversarial attacks on AI models.
- Secure AI development lifecycle (SecDevOps for AI).
- **Case Study:** Analyzing an adversarial attack on a self-driving car's perception system.
- Best practices for securing AI model deployment and inference.

Module 7: AI Data Privacy & Data Governance

- Navigating data privacy regulations (GDPR, CCPA, etc.) in the context of AI.
- Implementing privacy-enhancing technologies (PETs) for AI.
- Data anonymization, pseudonymization, and differential privacy techniques.
- **Case Study:** Ensuring data privacy for customer data used in an AI-driven personalization engine.
- Establishing robust data governance frameworks for AI systems.

Module 8: AI Explainability & Interpretability (XAI)

- The importance of XAI for accountability, trust, and debugging.
- Techniques for model interpretability (e.g., SHAP, LIME).
- Communicating AI decisions to non-technical stakeholders.
- **Case Study:** Explaining the decision of an AI system denying a loan application.
- Balancing explainability with model performance and complexity.

Module 9: AI Accountability & Human Oversight

- Establishing clear lines of responsibility for AI system outcomes.
- Designing effective human-in-the-loop and human-on-the-loop processes.
- Auditability and traceability of AI decisions.
- **Case Study:** Developing an accountability framework for an AI system used in judicial sentencing.
- Legal and ethical implications of AI autonomy.

Module 10: Regulatory Compliance in AI

- In-depth analysis of the EU AI Act and its classification of AI systems.
- Understanding the US Executive Order on Safe, Secure, and Trustworthy AI.
- Sector-specific AI regulations (e.g., healthcare, finance).

- **Case Study:** Adapting an AI product development roadmap to comply with the EU AI Act's high-risk requirements.
- Strategies for continuous regulatory monitoring and adaptation.

Module 11: AI Incident Response & Crisis Management

- Developing an AI incident response plan: detection, containment, eradication, recovery.
- Forensic analysis of AI system failures and anomalies.
- Crisis communication strategies for AI-related incidents.
- **Case Study:** Responding to a public relations crisis stemming from an AI system's biased output.
- Learning from AI incidents and implementing corrective actions.

Module 12: Ethical AI by Design & Responsible Innovation

- Integrating ethical considerations throughout the AI development lifecycle.
- Value alignment and human-centric AI design principles.
- Participatory design and stakeholder engagement in AI.
- **Case Study:** Designing an AI system for public transport with a focus on accessibility and fairness for all users.
- Fostering a culture of responsible innovation within the organization.

Module 13: Implementing AI Governance: Practical Steps

- Roadmap for establishing an AI governance office or committee.
- Roles and responsibilities for AI governance within an organization.
- Integrating AI governance into existing GRC (Governance, Risk, and Compliance) structures.
- **Case Study:** Developing a phased implementation plan for an AI governance framework in a large enterprise.
- Measuring the effectiveness of AI governance initiatives.

Module 14: AI Impact Assessments & Societal Implications

- Conducting comprehensive AI impact assessments (AIAs).
- Analyzing the societal implications of AI (e.g., employment, discrimination).
- Stakeholder engagement and public consultation for AI projects.
- **Case Study:** Assessing the socio-economic impact of deploying AI-powered automation in a manufacturing facility.
- Contributing to broader AI policy discussions and advocacy.

Module 15: Future Trends in AI Risk & Governance

- Emerging AI technologies and their potential risks (e.g., AGI, superintelligence).
- The role of AI in automating risk management and compliance.
- International cooperation and harmonization of AI governance.
- **Case Study:** Preparing for future regulatory shifts related to explainable AI and data sovereignty.
- Horizon scanning for new AI threats and opportunities in risk management.

Training Methodology

This course utilizes a blended learning approach to maximize engagement and knowledge retention:

- **Interactive Lectures & Discussions:** Expert-led sessions with ample opportunity for Q&A and peer-to-peer learning.
- **Real-World Case Studies:** In-depth analysis of historical and contemporary AI incidents and successful implementations to illustrate key concepts.
- **Practical Exercises & Workshops:** Hands-on activities, group discussions, and scenario-based problem-solving.
- **Templates & Checklists:** Provision of practical tools for developing AI policies, risk assessments, and governance frameworks.
- **Guest Speakers:** Insights from industry leaders, regulators, and AI ethicists.
- **Online Resources:** Access to curated readings, videos, and supplementary materials for self-paced learning.
- **Capstone Project (Optional):** Participants can apply learned concepts to develop an AI risk management plan for their own organization.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.com 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

- The participant must be conversant with English.
- Upon completion of training the participant will be issued with an Authorized Training Certificate
- Course duration is flexible and the contents can be modified to fit any number of days.
- The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.
- One-year post-training support Consultation and Coaching provided after the course.
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Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
07 Sep 2026	18 Sep 2026	Online	\$2,200
14 Sep 2026	25 Sep 2026	Online	\$2,200
21 Sep 2026	02 Oct 2026	Online	\$2,200
28 Sep 2026	09 Oct 2026	Online	\$2,200
05 Oct 2026	16 Oct 2026	Online	\$2,200
12 Oct 2026	23 Oct 2026	Online	\$2,200
19 Oct 2026	30 Oct 2026	Online	\$2,200
26 Oct 2026	06 Nov 2026	Online	\$2,200

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