

TOC – Artificial Intelligence Governance Course

Day 1: Foundations of AI Governance & Ethics

Module 1: Introduction to AI Governance

- Understanding AI systems and technologies
- The importance of AI governance in modern organizations
- Key stakeholders in AI governance
- Overview of AI regulations and frameworks (ISO 42001, NIST AI RMF, OECD AI Principles)

Module 2: Principles of Responsible AI

- AI fairness, transparency, and accountability
- AI bias and discrimination: Identifying and mitigating biases
- Explainability and interpretability in AI systems
- Ethics in AI development and deployment

Module 3: Legal and Regulatory Landscape

- Global AI regulations (EU AI Act, US AI Executive Order, DPDP Act in India)
- GDPR and AI: Compliance challenges
- Cross-border AI governance challenges
- Industry-specific AI compliance (healthcare, finance, defense, etc.)

Day 2: AI Risk Management and Compliance

Module 4: AI Risk Assessment & Mitigation Strategies

- Identifying AI-related risks (security, privacy, societal risks)
- Risk assessment methodologies for AI models
- Impact assessments (Data Protection Impact Assessment - DPIA for AI)
- Managing unintended AI consequences

Module 5: AI Security and Privacy Compliance

- AI and cybersecurity risks
- Data privacy concerns in AI applications
- Implementing Privacy by Design in AI systems
- AI and data protection laws (DPDP, GDPR, CCPA, etc.)

Module 6: AI Governance Frameworks and Best Practices

- Establishing an AI governance framework within an organization
- ISO 42001 and its role in AI governance
- AI accountability: Roles and responsibilities of AI teams
- AI governance maturity model and self-assessment

Day 3: AI Lifecycle Management and Auditing

Module 7: AI Development Lifecycle Governance

- Governance in AI model training, validation, and deployment
- Data governance and AI: Quality, sourcing, and bias mitigation
- AI supply chain risks: Managing third-party AI vendors
- AI model monitoring, auditing, and explainability

Module 8: Incident Management and AI Failures

- Understanding AI failures and their real-world impact
- AI error handling and escalation policies
- Developing an AI incident response plan
- Lessons from AI-related failures (case studies)

Module 9: AI Governance Audits & Compliance Checks

- Conducting AI audits: Key considerations
- Internal vs. external AI audits
- Ensuring AI compliance with organizational policies
- AI model accountability and documentation requirements

Day 4: Implementing AI Governance & Future Trends

Module 10: AI Policy Development & Implementation

- Drafting AI policies for organizations
- AI ethics boards and governance committees
- Communicating AI policies to stakeholders
- Employee training and awareness programs

Module 11: AI Governance in the Enterprise

- AI governance in large organizations vs. startups
- Building cross-functional AI governance teams

- Managing AI regulatory compliance across different regions
- Practical implementation of AI governance frameworks

Module 12: Future of AI Governance & Emerging Trends

- The role of AI governance in upcoming regulations
- Generative AI governance: Challenges and strategies
- AI and quantum computing: Future risks and controls
- Preparing for evolving AI regulatory landscapes