



AGENTIC AI GOVERNANCE

Course Syllabus



Agentic AI Governance Training Course Syllabus

Part 1: Agentic AI Foundational Knowledge

1. What Is Agentic AI? Agentic AI Core Definitions, Lifecycle, & Governance

- a. Phases of Agentic AI Selection, Deployment & Governance
- b. Relationship to Traditional AI and Generative AI
- c. Reasoning and Planning: The Brains of Agentic AI
- d. Real-World Examples
- e. The Core Agentic Workflow (Thought-Action-Observation)
- f. Detailed Examples of Agentic Automation
- g. Agentic Reflection: Self-Correction and Plan Improvement
- h. Examples of Reflection in Multi-Step Planning
- i. Memory and State Tracking in Agentic AI
- j. Interaction Loops with Humans or Environments

2. Categories of AI Agents

- a. Task-Oriented Agents
- b. Multi-Agent Systems (MAS): Specialized Collaboration
- c. Embodied/Robotic Agents
 - i. Spot vs. Optimus: A Tale of Two Robotic Philosophies
 - ii. Tesla Optimus vs. Xpeng IRON Humanoid Robots

3. Global & National Regulatory Frameworks

- a. Safety, Cybersecurity, and Data Standards
- b. ISO standards
- c. Emerging Agentic AI standards

4. Core Technologies & Architectures

- a. LLM-Based Agent Architectures
- b. Retrieval-Augmented Generation (RAG): Grounding the Agent
- c. Chain-of-Thought Planning

5. Agent Frameworks & Platforms

6. Memory & State Management

7. Emerging Standards & Governance

8. Emerging Trends in Tool Protocols

9. Human-in-the-Loop vs. Human-on-the-Loop Oversight

- 10. Regulatory Landscape Overview: Global AI Regulations**
- 11. Compliance Considerations for Organizations Deploying Agentic AI**
- 12. Best Practices for Building Agentic Systems**
- 13. Monitoring & Deployment Telemetry for Agent Actions**
- 14. Practical Use Cases**

Part 2: The Role of Key Functional Groups in Agentic AI Governance (based on the Information Governance Reference Model)

- 1. The Role of Business Units in Agentic AI Governance**
- 2. The Role of Legal Function in Agentic AI Governance**
- 3. The Role of Data Privacy in Agentic AI Governance**
- 4. The Role of RIM in Agentic AI Governance**
- 5. The Role of Cybersecurity in Agentic AI Governance**
- 6. The Role of IT in Agentic AI Governance**
- 7. The Role of Risk Management in Agentic AI Governance**
- 8. The Role of Auditing in Agentic AI Governance**