

Course Outline: AI-GRC Associate

Lecture 1: Understanding Artificial Intelligence

1. What is Artificial Intelligence
2. Why AI is Important Today
3. Core Components of AI
4. How AI Systems Work
5. Types of AI
6. Real-Life Applications of AI
7. Why AI Requires Governance

Lecture 2: Introduction to AI Governance

1. Meaning of AI Governance
2. Objectives of AI Governance
3. Importance of AI Governance
4. Key Stakeholders in AI Governance
5. AI Governance Across the Lifecycle
6. Risks of Poor AI Governance

Lecture 3: Principles of Responsible AI

1. Concept of Responsible AI
2. Fairness and Non-Discrimination
3. Transparency and Explainability
4. Accountability and Ownership
5. Privacy and Data Protection
6. Safety and Reliability
7. Human Oversight

Lecture 4: Global Trends and Need for AI Regulation

1. Growth of AI and Emerging Risks
2. Common Risks Associated with AI
3. Why Governments Regulate AI
4. Role of International Bodies
5. Shift Toward AI Laws and Regulations
6. Impact of Regulation on Organizations

Lecture 5: Overview of Global AI Governance Frameworks

1. Concept of AI Governance Frameworks
2. Need for AI Governance Frameworks
3. Common Themes Across Frameworks
4. Use of Frameworks by Organizations
5. Frameworks Versus Regulations

Lecture 6: AI Governance Framework – ISO/IEC 42001

1. Introduction to ISO/IEC 42001
2. AI Management System Concept
3. Management System Approach (PDCA)
4. Structure of ISO/IEC 42001
5. Benefits of ISO/IEC 42001
6. Applicability of the Standard

Lecture 7: AI Governance Framework – NIST AI RMF

1. Introduction to NIST AI RMF
2. Trustworthy AI Concept
3. Govern Function
4. Map Function
5. Measure Function
6. Manage Function

Lecture 8: AI Governance Framework – OECD AI Principles

1. Introduction to OECD AI Principles
2. Key OECD AI Principles
3. Role of OECD in AI Governance
4. Application of OECD Principles

Lecture 9: EU AI Act

1. Introduction to the EU AI Act
2. Risk-Based Classification of AI Systems
3. Requirements for High-Risk AI Systems
4. Governance and Transparency Obligations
5. Penalties and Enforcement
6. Global Impact of the EU AI Act

Lecture 10: AI Impact Assessment

1. Introduction to AI Impact Assessment
2. When an AI Impact Assessment is Required
3. Scope of an AI Impact Assessment
4. Steps to Perform an AI Impact Assessment
5. Benefits of AI Impact Assessments

Lecture 11: AI Risk Assessment

1. Understanding AI Risks
2. Categories of AI Risks
3. AI Risk Identification
4. AI Risk Analysis and Evaluation
5. AI Risk Treatment
6. Integration with Enterprise Risk Management

Lecture 12: Comparative Analysis of Frameworks

1. Purpose of Framework Comparison
2. ISO/IEC 42001 and NIST AI RMF
3. OECD AI Principles and EU AI Act

4. Strengths and Limitations of Frameworks
5. Selecting Appropriate Frameworks

Lecture 13: AI Governance Structure

1. Designing an AI Governance Structure
2. Roles and Responsibilities
3. AI Governance Committees
4. Three Lines of Defense for AI
5. Cross-Functional Collaboration

Lecture 14: Policies and Standards for AI

1. Importance of AI Policies
2. Key AI Policies
3. Internal AI Standards and Guidelines
4. Alignment with Regulations and Frameworks

Lecture 15: AI Lifecycle Governance

1. Overview of the AI Lifecycle
2. Governance During AI Design and Development
3. Governance During AI Deployment
4. Governance During AI Monitoring and Change
5. AI System Retirement

Lecture 16: AI Documentation and Record-Keeping

1. Importance of AI Documentation
2. Types of AI Documentation
3. Documentation for Compliance and Audits
4. Record Retention and Traceability

Lecture 17: Security and Safety in AI Systems

1. AI-Specific Security Risks
2. Data Security in AI Systems
3. Model Security and Integrity
4. Adversarial Attacks
5. AI Safety Controls

Lecture 18: AI Incident Management

1. Understanding AI Incidents
2. Types of AI Incidents
3. AI Incident Response Lifecycle
4. Incident Reporting and Escalation
5. Post-Incident Review

Lecture 19: AI Monitoring and Continuous Improvement

1. Need for Continuous Monitoring
2. Performance and Accuracy Monitoring
3. Bias and Drift Detection
4. Compliance Monitoring

5. Continuous Improvement

Lecture 20: AI Audits

1. Introduction to AI Audits
2. Objectives of AI Auditing
3. Internal and External AI Audits
4. AI Audit Scope and Criteria
5. Audit Evidence and Artefacts
6. Audit Reporting and Follow-Up

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