AAIA - Advanced in AI Audit Certification Prep Training

Duration: **2 Day**

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Prepare to audit, govern, and manage AI systems with confidence through ISACA's AAIA certification prep.

The AAIA Certification Prep Course is designed to help professionals build the expertise needed to audit and govern AI systems with confidence. As artificial intelligence becomes integral to business operations, organizations face new challenges around ethics, compliance, and risk. This course provides a practical framework for understanding AI governance, managing risk, and aligning AI initiatives with organizational objectives.

Participants will explore the full AI lifecycle, from data management and model development to security controls and change management. The program covers proven techniques for testing AI systems, identifying vulnerabilities, and responding to incidents. It also offers guidance on planning and conducting AI-focused audits, collecting reliable evidence, and delivering clear, actionable reports.

Whether you're preparing for ISACA's AAIA certification or looking to strengthen your ability to oversee AI programs, this course equips you with the tools and knowledge to ensure transparency, accountability, and compliance in an AI-driven world.

Who Should Attend?

This course is designed for professionals responsible for auditing, governing, or managing AI systems within their organizations, including:

- **IT Auditors and Risk Professionals** seeking to expand their expertise into AI auditing.
- **AI Governance and Compliance Officers** tasked with ensuring ethical and regulatory adherence.
- **Cybersecurity and Data Privacy Specialists** who need to understand AI-specific risks and controls.
- **AI Program Managers and Project Leads** overseeing AI solution development and lifecycle management.
- **Internal and External Auditors** who perform audits on AI systems and related processes.

Ideal for individuals preparing for ISACA's **Advanced in AI Audit (AAIA)** certification or those looking to strengthen their knowledge of AI governance, risk management, and auditing practices.

Prerequisites

To ensure success in this certification prep course, participants should have:

- **ISACA CISA Certification** (Certified Information Systems Auditor) or equivalent auditing experience.
- A solid understanding of **IT governance, risk management, and compliance frameworks**.
- Familiarity with **AI concepts and terminology**, including machine learning models and data governance.
- Basic knowledge of **information security and privacy principles**.
- Experience with **audit processes and methodologies** in a technology environment.

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What You Will Learn

- Establish AI Governance and Risk Frameworks
- Assess and Manage AI Risks
- Oversee AI Operations and Development
- Apply AI-Specific Testing and Security Controls
- Conduct AI-Focused Audits

Training Outline

Domain 1: AI Governance and Risk

- AI Models, Considerations and Requirements
- Types of AI
- Machine Learning/AI Models
- Algorithms
- AI Life Cycle
- Business Considerations
- AI Governance and Program Management
- AI Strategy
- AI-Related Roles and Responsibilities
- AI-Related Policies and Procedures
- AI Training and Awareness
- Program Metrics
- AI Risk Management
- AI-Related Risk Identification
- Risk Assessment
- Risk Monitoring
- Privacy and Data Governance Programs
- Data Governance
- Privacy Considerations
- Leading Practices, Ethics, Regulations and Standards for AI
- Standards, Frameworks, and Regulations Related to AI
- Ethical Considerations

Domain 2: AI Operations

- Data Management Specific to AI
- Data Collection
- Data Classification
- Data Confidentiality
- Data Quality
- Data Balancing
- Data Scarcity
- Data Security
- AI Solution Development Methologies and Lifecycle
- AI Solution Development Life Cycle

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- Privacy and Security by Design
- Change Management Specific to AI
- Change Management Considerations
- Supervision of AI Solutions
- AI Agency
- Testing Techniques for AI Solutions
- Conventional Software Testing Techniques Applied to AI Solutions
- AI-Specific Testing Techniques
- Threats and Vulnerabilities Specific to AI
- Types of AI-Related Threats
- Controls for AI-Related Threats
- Incident Response Management Specific to AI
- Prepare
- Identify and Report
- Assess
- Respond
- Post-Incident Review

Domain 3: AI Auditing Tools & Techniques

- Audit Planning and Design
- Identification of AI Assets
- Types of AI Controls
- AI Audit Use Cases
- Internal Training for AI Use
- Audit Testing and Sampling Methodolgies
- Designing an AI Audit
- AI Audit Testing Methodologies
- AI Sampling Testing
- AI Outcomes Sample
- AI Audit Process
- Audit Evidence Collection Techniques
- Data Collection
- Walkthroughs and Interviews
- AI Collection Tools
- Audit Data Quality and Data Analytics
- Data Quality
- Data Analytics
- Data Reporting
- AI Audit Outputs and Reports
- Reports
- Audit Follow-up
- Quality Assurance