Training Course on Information Systems Auditing

Professional Development Training Course Outline

Category	Development	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s digital world, organizations face an increasing number of cybersecurity risks and challenges. Information Systems Auditing (ISA) has emerged as an essential field to ensure that systems, processes, and policies are aligned with industry standards and regulatory requirements. With the growing reliance on technology for business operations, an effective Information Systems Audit is crucial for safeguarding sensitive data, maintaining system integrity, and ensuring compliance. ISA professionals play a key role in evaluating and enhancing an organization's IT systems by identifying potential vulnerabilities and ensuring efficient, secure, and compliant business practices.

Training Course on Information Systems Auditing aims to provide learners with the essential skills and knowledge required to conduct thorough audits of information systems. Participants will learn how to evaluate the effectiveness of control systems, understand regulatory frameworks, identify cybersecurity risks, and implement audit practices that align with global standards. Whether you are looking to start a career in auditing or enhance your existing skill set, this course will equip you with the tools necessary to excel in the evolving field of information security and systems auditing.

Programme Curriculum

Training Course on Information Systems Auditing

Introduction

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Course Objectives:

1. Understand the Fundamentals of Information Systems Auditing
   Learn the basic concepts and principles behind auditing information systems, including risk management and control frameworks.
2. Evaluate Information Systems for Security and Compliance
   Assess how well systems adhere to security policies and regulatory standards to ensure data integrity and confidentiality.
3. Master Audit Methodologies for Information Systems
   Gain in-depth knowledge of audit methodologies, including risk-based auditing and security audits, to enhance auditing effectiveness.
4. Understand the Role of IT Governance in Audits
   Learn how IT governance principles affect auditing practices and contribute to overall business management.
5. Implement Audit Practices Based on Industry Standards
   Apply globally recognized auditing frameworks like COBIT, ISO/IEC 27001, and NIST.
6. Identify Vulnerabilities in IT Systems
   Develop the skills needed to pinpoint potential weaknesses in hardware, software, and network systems.
7. Ensure Compliance with Regulatory Requirements
   Understand and ensure adherence to major regulatory standards like GDPR, HIPAA, and SOX.
8. Evaluate Risk Management Strategies in IT Systems
   Learn how to assess and mitigate risks in the organization's IT infrastructure.
9. Analyze Security Incident Response and Forensics
   Gain the ability to assess how security breaches are handled and evaluate the effectiveness of the incident response.
10. Assess IT Infrastructure and Network Security
    Learn to evaluate network security and infrastructure to ensure reliable and secure operations.

11. Perform Data Integrity and Data Recovery Audits
    Understand how to ensure that organizational data is accurate, available, and recoverable in case of system failure.
12. Conduct Financial Audits on Information Systems
    Master the process of conducting audits for financial transactions and reporting through IT systems.
13. Improve the Audit Reporting Process: Learn how to prepare comprehensive audit reports that highlight issues, provide recommendations, and ensure decision-making.

Target Audience

1. IT Auditors
2. Cybersecurity Professionals
3. Compliance Officers
4. Information Systems Managers
5. Risk Management Experts
6. IT Governance Practitioners
7. Data Analysts
8. Security Consultants

Course Duration:

- 10 days

Course Modules:

Module One: Introduction to Information Systems Auditing

- Key Concepts of ISA
- The Role of Information Systems in Auditing
- Types of Information System Audits
- Risk and Control Frameworks
- Benefits of Auditing in Organizations

Module Two: IT Governance and Auditing

- Principles of IT Governance
- IT Governance Frameworks (COBIT)
- IT Governance and Risk Management
- Role of IT Governance in Audit Practices
- Auditing IT Governance Effectiveness

Module Three: Auditing Information Security

- Information Security Policies and Procedures
- Security Control Frameworks (ISO/IEC 27001, NIST)
- Risk Assessment in Information Security

- Security Incident Reporting
- Forensics in Information Systems Security

Module Four: Compliance Auditing and Regulatory Standards

- Regulatory Requirements (GDPR, HIPAA, SOX)
- Compliance Frameworks
- Auditing for Regulatory Compliance
- The Role of Auditors in Regulatory Compliance
- Managing Compliance Risks

Module Five: Risk Management in Information Systems

- Identifying IT Risks
- Risk Assessment Techniques
- Risk Mitigation Strategies
- Evaluating IT Risk Management Systems
- Risk Management Best Practices

Module Six: Audit Methodologies and Techniques

- Risk-based Audit Approach
- Security Audits and Control Testing
- Sampling and Evidence Gathering
- Reporting Findings
- Auditing IT Infrastructure and Networks

Module Seven: Audit of Data Integrity and Recovery

- Ensuring Data Accuracy
- Data Recovery in Auditing
- Data Protection and Backup Policies
- Auditing Data Integrity Practices
- Implementing Data Recovery Strategies

Module Eight: IT Infrastructure Security Audits

- Evaluating Network Security
- Auditing Network Configurations
- Security Controls for IT Infrastructure
- Identifying Vulnerabilities in Infrastructure
- Penetration Testing and Vulnerability Scanning

Module Nine: Cybersecurity Audits and Incident Response

- Understanding Cybersecurity Threats
- Cybersecurity Incident Response Protocols
- Forensic Analysis in Cybersecurity
- Auditing Cybersecurity Incidents

- Reporting Cybersecurity Breaches

Module Ten: Performing Financial Audits on Information Systems

- Auditing Financial Systems
- Auditing IT-based Financial Transactions
- Risk Analysis for Financial Audits
- Fraud Detection Techniques
- Auditing Financial Reporting Systems

Module Eleven: Audit Reporting and Documentation

- Writing Effective Audit Reports
- Documenting Audit Findings
- Communicating with Stakeholders
- Presenting Audit Recommendations
- Legal and Ethical Aspects of Audit Reporting

Module Twelve: Tools and Techniques for Auditing

- Audit Software and Tools
- Using Audit Management Systems
- Automation in Auditing
- Case Studies in Audit Tool Implementation
- Best Practices for Using Auditing Tools

Module Thirteen: Auditing Cloud and Virtual Environments

- Auditing Cloud Security
- Cloud Compliance and Regulatory Standards
- Virtualization and Cloud Risk Assessment
- Managing Cloud Audit Trails
- Auditing Cloud-based Data Storage

Module Fourteen: Security Audits for Web Applications

- Auditing Web Application Security
- Identifying Web Vulnerabilities
- Web Application Penetration Testing
- Securing Web Application Infrastructure
- Compliance with Web Application Standards

Module Fifteen: Advanced Auditing Techniques

- Big Data Audits
- Blockchain Auditing
- AI in Information Systems Auditing
- Blockchain and Cybersecurity Auditing
- Future Trends in Auditing Techniques

Training Methodology

This course employs a blended learning methodology that combines instructor-led sessions, hands-on labs, and real-world case studies. It is designed to cater to various learning styles through the following approach:

- **Interactive Lectures:** Theoretical knowledge will be imparted through engaging lectures delivered by experienced instructors.
- **Hands-on Exercises:** Participants will work on practical exercises using industry-standard audit tools and software to simulate real-world scenarios.
- **Case Studies:** Case studies will be discussed to apply learned concepts to practical situations.
- **Quizzes and Assignments:** Periodic quizzes and assignments will be used to assess understanding and retention of key concepts.
- **Group Discussions:** Group discussions and peer reviews will foster collaborative learning and the exchange of ideas.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org 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

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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