



Information Systems and Technology Audit (Advanced)

Course Introduction:

This course is designed to provide participants with an in-depth understanding of advanced auditing techniques in the rapidly evolving fields of information systems and technology. As organizations increasingly rely on digital solutions, ensuring the security, efficiency, and compliance of IT systems has become a critical priority. This course offers a comprehensive approach to evaluating IT environments and providing actionable recommendations to enhance their reliability and security. Participants will gain insights into key topics such as cybersecurity audit techniques, IT governance frameworks, data privacy, cloud technology assessments, and risk management strategies. By mastering these concepts, attendees will be well-equipped to conduct advanced audits that contribute to organizational resilience and regulatory compliance.

Course Objectives:

By the end of the training, participants will be able to:

- Develop a deep understanding of advanced IT audit practices and techniques.
 - Learn to evaluate the security, performance, and compliance of information systems.
 - Gain expertise in auditing emerging technologies such as cloud and blockchain.
 - Understand risk assessment strategies for IT environments.
 - Enhance skills in cybersecurity audits and incident management.
 - Strengthen knowledge of data protection regulations and compliance.
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Who Should Attend?

This course is designed for all:

- IT Auditors and Internal Auditors
 - Risk Management Professionals
 - IT Governance Officers
 - Information Security Specialists
 - Compliance Professionals
 - Audit Managers and Consultants
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Course Outline:

Day 1: Advanced IT Audit Frameworks and Governance

- IT Audit Principles and Frameworks

- COBIT, ISO 27001, and NIST frameworks
- IT governance best practices
- **Aligning IT Audits with Business Objectives**
 - Strategic audit planning for technology environments
- **Regulatory and Compliance Considerations**
 - Data protection laws and industry standards

Day 2: Risk Management in IT Audits

- **Identifying and Assessing IT Risks**
 - Threat vectors and vulnerabilities
 - Risk prioritization techniques
- **Risk-Based Auditing Approaches**
 - Tailoring audits based on risk assessments
- **Mitigation Strategies for IT Risks**
 - Proactive vs. reactive risk management

Day 3: Cybersecurity Audit Techniques

- **Evaluating IT Security Controls**
 - Identity and access management (IAM)
 - Network security and endpoint protection
- **Incident Management and Response Audits**
 - Assessing incident handling procedures
- **Auditing Emerging Cyber Threats**
 - Threat intelligence and zero-day vulnerabilities

Day 4: Emerging Technologies and IT Infrastructure Audits

- **Cloud Technology Audits**
 - Evaluating cloud service providers and configurations
- **Blockchain and Distributed Ledger Audits**

- Key security considerations and audit methods
- **Auditing Data Centers and Virtual Environments**
 - Best practices for infrastructure assessments

Day 5: Reporting, Compliance, and Continuous Improvement

- **Effective IT Audit Reporting Techniques**
 - Crafting actionable recommendations
 - Communicating findings to technical and non-technical stakeholders
- **Ensuring Compliance with IT Standards**
 - GDPR, HIPAA, and other regulatory requirements

Course Methodology:

A variety of methodologies will be used during the course that including:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Fees:

To be advised as per course location. This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

