

2024

ISACA Kenya Chapter

A 2024 Training Programme

[IT Audit Training – TECHNICAL: Course Outline]

The Training Course outlines the concepts of information technology participants need to know in order to address the audit concerns in their IT environment. It covers current IT trends, evolving business risks, and relevant control frameworks and standards.

ISACA Kenya Chapter
Information Technology (IT) Audit Training – TECHNICAL
Course Outline
Course Duration: Five (5) Days

A. Preamble and Introduction:

That ICT plays a critical enabling role in our daily lives, businesses and organisations cannot be over-emphasized. However, there must be mechanisms and processes in-place to ensure that reliance on ICT promotes a secure internal control environment and that information assets are protected in terms of confidentiality, integrity and availability. Awareness of the constantly changing information technology environments is vital in understanding the roles, responsibilities, and overall success of audit as a function of every industry.

The Training Course will address the concepts of information technology you need to know in order to address the audit concerns in your IT environment. It will cover the current IT trends, evolving business risks, and revised control frameworks and standards. With the advent of web-based applications and systems, cybersecurity challenges are on the rise whereby the traditional security solutions are no longer sufficient.

The Training Course will be facilitated by professionals with practical and real-world IT audit experience across the globe. It will incorporate: facilitated discussions, group discussions, and hands-on exercises.

B. Objectives:

The broad objectives of the training course will be to ensure participants:

1. understand the concepts of information technology in order to address audit concerns in an organisation's IT environment, including cybersecurity challenges;
2. familiarise themselves with relevant control frameworks (COSO, COBIT and ISO27001); and
3. learn the process of auditing IT systems (e.g., IT general controls (ITGC), databases, operating systems, and network infrastructure components such as firewalls).

C. Outcome:

At the end of the training course, participants should be able to:

1. demonstrate a solid foundation in the basics and processes of information technology as they apply to IT technical audits and information security concerns.
2. acquire the foundational knowledge necessary to provide audit services in accordance with IS audit standards to assist their organisations with protecting and controlling information systems.

D. CPE Hours Available:

At the end of the course, eligible participants will:

1. Earn up to 28 CPE (Continuous Professional Education) Hours.
2. Receive a participation certificate showing the number of CPE Hours.

E. Course Outline:

1. IT Audit Overview
 - The evolution of IT: A paradigm shift
 - IT overview
 - IT risks
 - General computer controls overview
2. Control Frameworks
 - COSO
 - COBIT (Risk IT)
 - ISO27001
3. IT Audit Function Management
 - Organisation of the IT audit function
 - IT audit resource management, including staffing and training
 - IT audit planning, including risk analysis (annual planning & individual audit assignments)
 - Effect of laws and regulations on IT audit planning
4. ISACA IS Audit and Assurance Standards & Guidelines
 - ISACA Code of Professional Ethics
 - ISACA IS Audit and Assurance Standards Framework
 - ISACA IS Audit and Assurance Guidelines
 - ISACA IS Audit and Assurance Tools and Techniques
5. Conducting an IT Audit
 - Planning (for fieldwork and reporting)
 - Classification of audits
 - Audit program (development / update)
 - Audit methodology
 - Fraud detection
 - Risk-based auditing
 - Audit risk and materiality
 - Risk assessment and treatment
 - Risk assessment techniques
 - Audit objectives
 - Using the services of other auditors and experts
 - Computer-assisted audit techniques (CAATs)
 - Evaluation of strengths and weaknesses
 - Communicating audit results
 - Implementation of IT audit recommendations (by management)
 - Audit (Workpaper) documentation
6. IT Audit General Controls (ITGC) Review, e.g.:
 - Physical security
 - General access controls
 - Change management and controls
 - Operations controls
 - Backup & restore / recovery
 - Environmental controls

7. Systems under Development (Systems Development Life Cycle (SDLC)), including web-based applications
 - Overview
 - Traditional SDLC approach and phases
 - Main audit steps
 8. Auditing Databases (Database Management Systems)
 - Overview
 - Key risks
 - Main audit steps
 9. Auditing Operating Systems (OS)
 - Overview
 - OS acquisition, configuration and administration
 - Main audit steps
 10. Auditing Network Components / Security
 - Overview
 - Network design, configuration, administration, and performance monitoring
 - Main audit steps
 11. Auditing Business Continuity Plan (BCP)
 - Overview
 - Business Continuity Planning (BCP)
 - Disaster Recovery Planning (DRP)
 12. IT Governance
 - IT Governance vs. Corporate Governance
 - Role of Audit Committees in IT Governance
 - (Information systems strategy and planning (Budgeting))
 13. Emerging Technologies
 - Digital enterprise
 - Cloud computing
 - Cybersecurity
 - Mobile technology
 - Social media
 - Data analytics
 - Virtualisation
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Thank You.