DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

ACCOUNTING AND FINANCE

IT Auditing and Information Systems Assurance Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
10 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 25, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

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Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

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IT Auditing and Information Systems Assurance Training Course

Accounting and Finance • 10 Days Intensive • Accredited Certification

Course Overview

IT Auditing and Information Systems Assurance Training Course provides comprehensive knowledge and practical skills for evaluating information technology infrastructure, assessing cybersecurity risks, strengthening internal IT controls, and ensuring the reliability, confidentiality, integrity, and availability of organizational information systems.

Key Skills & Software Tools Covered

MS Word • Microsoft Azure • ACL Analytics (Diligent) • and IDEA Data Analysis Software

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
7 Dec 2026 – 18 Dec 2026	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**

11 Oct 2027 – 22 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

IT Auditing and Information Systems Assurance Training Course

Introduction

IT Auditing and Information Systems Assurance Training Course provides comprehensive knowledge and practical skills for evaluating information technology infrastructure, assessing cybersecurity risks, strengthening internal IT controls, and ensuring the reliability, confidentiality, integrity, and availability of organizational information systems. The course explores modern IT audit frameworks, information systems governance, risk-based auditing, cloud security, data protection, artificial intelligence governance, digital transformation, and information security assurance. Participants will gain practical insights into internationally recognized standards, including COBIT, ISO 27001, ISO 27002, NIST Cybersecurity Framework, and ITIL, while developing competencies in IT risk management, regulatory compliance, digital forensics, and technology assurance.

Through practical exercises, international case studies, and real-world audit scenarios, participants will learn how to identify IT control weaknesses, evaluate enterprise technology environments, investigate cybersecurity incidents, and develop effective audit recommendations. The programme emphasizes emerging technologies, continuous auditing, automated audit tools, data analytics, third-party technology risk, and business continuity management. It equips professionals with the expertise to strengthen digital governance, improve operational resilience, prevent technology-related fraud, and align IT audit functions with organizational strategic objectives and global regulatory requirements.

Course Objectives

By the end of this course, participants will be able to:

- Understand modern IT auditing frameworks and assurance principles.
- Apply COBIT and ISO standards in IT governance.
- Conduct risk-based information systems audits.
- Evaluate cybersecurity controls and digital security risks.
- Assess IT general controls and application controls.
- Strengthen data privacy and regulatory compliance.
- Perform cloud computing security assessments.
- Apply artificial intelligence in continuous IT auditing.
- Evaluate network infrastructure and access management.
- Identify vulnerabilities and technology-related fraud.
- Assess disaster recovery and business continuity controls.
- Develop effective IT audit reports and recommendations.
- Implement technology assurance and continuous monitoring strategies.

Organizational Benefits

- Strengthens cybersecurity governance and organizational resilience.
- Reduces information technology operational risks.
- Improves regulatory compliance and accountability.
- Enhances data confidentiality and integrity.
- Minimizes technology-related fraud and financial losses.
- Strengthens internal controls and audit effectiveness.
- Improves business continuity and disaster recovery.
- Enhances cloud security and third-party risk management.
- Promotes informed technology investment decisions.

- Builds stakeholder confidence in information systems.

Target Audiences

- IT auditors and information systems auditors.
- Internal and external auditors.
- Chief Information Officers and IT managers.
- Information security and cybersecurity professionals.
- Risk management and compliance officers.
- Data protection and privacy specialists.
- Financial controllers and corporate governance professionals.
- IT consultants and technology assurance specialists.

Course Duration: 10 days

Course Modules

Module 1: Fundamentals of IT Auditing

- IT audit principles and professional standards.
- Scope, objectives and audit methodologies.
- IT audit lifecycle and planning.
- Roles and responsibilities of IT auditors.
- Audit evidence and documentation.
- Case study: Evaluating IT audit practices in a global financial institution.

Module 2: IT Governance and Management Frameworks

- COBIT governance principles.
- ISO 27001 and ISO 27002 standards.
- ITIL service management.
- IT strategic alignment and accountability.
- Governance performance measurement.
- Case study: COBIT implementation in a multinational banking organization.

Module 3: IT Risk Assessment and Management

- Enterprise IT risk identification.
- Risk assessment and prioritization.
- Risk registers and control matrices.
- Technology risk mitigation strategies.
- Emerging digital risk exposure.
- Case study: Managing cybersecurity risks in a global telecommunications company.

Module 4: Internal Controls and Systems Assurance

- IT general controls.
- Application control assessment.
- Segregation of duties.
- Change management controls.
- Access control effectiveness.
- Case study: Internal control failures in a major financial institution.

Module 5: Cybersecurity Auditing

- Cybersecurity audit frameworks.
- Threat and vulnerability assessments.
- Security operations and incident response.
- Penetration testing assurance.
- Security policy compliance.
- Case study: Lessons from the Equifax data breach.

Module 6: Network and Infrastructure Auditing

- Network architecture and security.
- Firewall and intrusion detection audits.
- Server and endpoint security.
- Network access monitoring.
- Infrastructure vulnerability management.
- Case study: Network security assessment in a global enterprise.

Module 7: Cloud Computing and IT Assurance

- Cloud governance and security.
- Infrastructure, platform and software services.
- Cloud access management.
- Shared responsibility models.
- Cloud compliance assessments.
- Case study: Cloud security governance in Microsoft Azure environments.

Module 8: Data Protection and Privacy Auditing

- Data governance and classification.
- GDPR and privacy compliance.
- Encryption and information security.
- Data retention and access policies.
- Privacy impact assessments.
- Case study: GDPR compliance challenges in European organizations.

Module 9: Database and Application Systems Auditing

- Database security controls.
- Database access and authentication.
- Application development controls.
- Software testing and validation.
- Database integrity and monitoring.
- Case study: Database control failures in an international banking environment.

Module 10: IT Compliance and Regulatory Assurance

- Regulatory compliance frameworks.
- PCI DSS and financial data protection.
- Regulatory audit documentation.
- Compliance monitoring and reporting.
- Third-party compliance assessments.
- Case study: PCI DSS compliance in global payment processing.

Module 11: Artificial Intelligence and Automated IT Auditing

- Artificial intelligence in audit processes.
- Machine learning for anomaly detection.
- Robotic process automation in auditing.
- Continuous auditing and monitoring.
- AI governance and ethical risks.
- Case study: AI-powered fraud detection in international banking.

Module 12: IT Forensics and Fraud Investigation

- Digital forensic investigation principles.
- Electronic evidence collection.
- Cybercrime investigation procedures.
- Log analysis and incident reconstruction.
- Fraud detection and reporting.

- Case study: Investigating financial cyber fraud involving unauthorized transactions.

Module 13: Business Continuity and Disaster Recovery

- Business impact assessments.
- Disaster recovery planning.
- Backup and restoration controls.
- Business continuity testing.
- Operational resilience assessment.
- Case study: Business continuity following a major global cloud service disruption.

Module 14: IT Audit Reporting and Communication

- Audit findings and evidence evaluation.
- Developing IT audit reports.
- Communicating control deficiencies.
- Corrective action recommendations.
- Audit follow-up and performance tracking.
- Case study: Presenting cybersecurity audit findings to a multinational company's board.

Module 15: Advanced IT Assurance and Emerging Technologies

- Continuous assurance and digital auditing.
- Blockchain and distributed ledger assurance.
- Internet of Things security assessments.
- Third-party technology assurance.
- Emerging technology risk management.
- Case study: Auditing blockchain-based financial systems in international markets.

Training Methodology

- Interactive presentations and expert-led discussions.
- Practical IT audit simulations and exercises.
- International case studies and group assignments.
- Hands-on cybersecurity and risk assessment exercises.
- Demonstrations of IT audit tools and data analytics.
- Group presentations, knowledge assessments and feedback.

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

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 DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/it-auditing-and-information-systems-assurance-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.