Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

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

ACCOUNTING AND FINANCE

Computer-Assisted Audit Techniques (CAATs) Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 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

P.O. Box 102802-00101, Nairobi, Kenya

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

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www.datastatresearch.org

Computer-Assisted Audit Techniques (CAATs) Training Course

Accounting and Finance • 5 Days Intensive • Accredited Certification

Course Overview

Computer-Assisted Audit Techniques (CAATs) Training Course is designed to equip professionals with advanced knowledge and practical skills in technology-driven auditing, digital audit transformation, data analytics, and automated audit procedures.

Key Skills & Software Tools Covered

MS Word • Microsoft Excel • Thomson Reuters ONESOURCE • and SAP S/4HANA Finance

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)
30 Nov 2026 – 4 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
7 Dec 2026 – 11 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
14 Dec 2026 – 18 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
21 Dec 2026 – 25 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
28 Dec 2026 – 1 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
4 Jan 2027 – 8 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
11 Jan 2027 – 15 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
18 Jan 2027 – 22 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
25 Jan 2027 – 29 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
1 Feb 2027 – 5 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
8 Feb 2027 – 12 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
15 Feb 2027 – 19 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
22 Feb 2027 – 26 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
1 Mar 2027 – 5 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
8 Mar 2027 – 12 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
15 Mar 2027 – 19 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
22 Mar 2027 – 26 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
29 Mar 2027 – 2 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
5 Apr 2027 – 9 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
12 Apr 2027 – 16 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
19 Apr 2027 – 23 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
26 Apr 2027 – 30 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
3 May 2027 – 7 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**

10 May 2027 – 14 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
17 May 2027 – 21 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
24 May 2027 – 28 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
31 May 2027 – 4 Jun 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
7 Jun 2027 – 11 Jun 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
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2 Aug 2027 – 6 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
9 Aug 2027 – 13 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
16 Aug 2027 – 20 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
23 Aug 2027 – 27 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
30 Aug 2027 – 3 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
6 Sep 2027 – 10 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
13 Sep 2027 – 17 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
20 Sep 2027 – 24 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
27 Sep 2027 – 1 Oct 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
4 Oct 2027 – 8 Oct 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
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20 Dec 2027 – 24 Dec 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**

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

Course Curriculum & Modules

Computer-Assisted Audit Techniques (CAATs) Training Course

Introduction

Computer-Assisted Audit Techniques (CAATs) Training Course is designed to equip professionals with advanced knowledge and practical skills in technology-driven auditing, digital audit transformation, data analytics, and automated audit procedures. As organizations increasingly adopt digital financial systems, enterprise resource planning platforms, cloud computing, and electronic record management, auditors must develop competencies in using Computer-Assisted Audit Techniques to improve audit efficiency, accuracy, transparency, and accountability. This course explores modern audit technologies, data extraction, audit automation, continuous auditing, computer-based testing, and risk-based auditing approaches to strengthen internal controls and financial reporting integrity.

Participants will gain practical experience in applying data analytics, audit sampling, exception reporting, fraud detection, and automated testing to complex organizational datasets. Through international case studies, practical demonstrations, and hands-on exercises, the training examines how organizations can leverage audit software, artificial intelligence applications, and digital evidence analysis to identify irregularities, detect financial fraud, evaluate internal controls, and improve compliance. The course also addresses cybersecurity risks, information technology governance, audit documentation, and emerging digital auditing practices, preparing participants to conduct reliable, technology-enabled audits aligned with international auditing standards and global best practices.

Course Objectives

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

- Understand the principles and applications of Computer-Assisted Audit Techniques.
- Apply data analytics and automated audit procedures.
- Perform electronic data extraction and validation.
- Strengthen risk-based auditing and internal control assessment.
- Utilize audit software for financial data analysis.
- Identify anomalies, irregular transactions, and potential fraud.
- Implement continuous auditing and automated monitoring.
- Apply statistical sampling and substantive testing techniques.
- Evaluate information technology controls and cybersecurity risks.
- Improve audit efficiency through digital transformation.
- Generate automated audit reports and exception analyses.
- Apply artificial intelligence in modern auditing environments.
- Strengthen audit compliance, transparency, and accountability.

Organizational Benefits

- Improved audit accuracy and reliability through automated testing.
- Reduced audit costs and manual audit workloads.
- Enhanced fraud detection and prevention capabilities.
- Stronger internal controls and risk management.
- Improved financial reporting transparency.
- Faster identification of irregular transactions.
- Increased compliance with international auditing standards.
- Better utilization of organizational financial data.
- Strengthened information technology governance.
- Improved organizational accountability and operational efficiency.

Target Audiences

- Internal and external auditors.
- Forensic auditors and fraud investigators.
- Accountants and financial controllers.
- Risk management professionals.
- Compliance and internal control officers.

- Information technology auditors.
- Finance managers and chief financial officers.
- Audit committee members and senior management.

Course Duration: 5 days

Course Modules

Module 1: Introduction to Computer-Assisted Audit Techniques

- Fundamentals, evolution, and importance of Computer-Assisted Audit Techniques.
- Types of computer-assisted auditing tools and applications.
- Differences between traditional auditing and digital auditing.
- Applications of CAATs in financial and operational audits.
- Global case study: Digital audit transformation within multinational banking institutions.
- Practical exercise: Identifying suitable CAATs for different audit assignments.

Module 2: Audit Data Extraction and Management

- Techniques for extracting data from databases and accounting systems.
- Data cleaning, validation, classification, and preparation.
- Working with spreadsheets, structured datasets, and financial records.
- Data integration across enterprise resource planning platforms.
- Global case study: Financial data extraction and reconciliation in multinational corporations.
- Practical exercise: Extracting and preparing financial datasets for audit analysis.

Module 3: Audit Data Analytics and Visualization

- Application of descriptive, diagnostic, and predictive audit analytics.
- Identifying financial trends, patterns, and unusual transactions.
- Developing audit dashboards and visualization reports.
- Applying analytical procedures to financial statements.
- Global case study: Using transaction analytics to identify irregularities in international banking.
- Practical exercise: Creating audit dashboards and analytical reports.

Module 4: Automated Audit Testing and Sampling

- Automated substantive testing and compliance testing procedures.
- Statistical sampling and risk-based audit sampling.
- Duplicate payment identification and transaction testing.
- Automated verification of balances and account reconciliations.
- Global case study: Detecting duplicate supplier payments in multinational organizations.
- Practical exercise: Conducting automated transaction sampling and exception testing.

Module 5: Fraud Detection and Forensic Data Analysis

- Identifying suspicious transactions and financial anomalies.
- Applying Benford's Law and statistical analysis in fraud detection.
- Electronic evidence collection and preservation.
- Detecting procurement fraud, payroll manipulation, and revenue leakage.
- Global case study: Analysis of financial irregularities in a major corporate fraud investigation.
- Practical exercise: Investigating suspicious transactions using forensic audit datasets.

Module 6: Information Technology Controls and Cybersecurity Auditing

- Evaluating general information technology controls.
- Assessing access management and user authorization.
- Auditing database security and electronic financial systems.
- Identifying cybersecurity vulnerabilities and technology risks.
- Global case study: Cybersecurity control assessment in international financial institutions.
- Practical exercise: Evaluating system access logs and information technology controls.

Module 7: Continuous Auditing and Emerging Technologies

- Implementing continuous auditing and real-time monitoring.
- Applying artificial intelligence and machine learning in auditing.
- Robotic process automation in audit workflows.
- Blockchain technology and digital audit trails.
- Global case study: Continuous transaction monitoring in large multinational enterprises.
- Practical exercise: Designing an automated continuous auditing framework.

Module 8: Audit Reporting, Documentation, and Practical Applications

- Preparing electronic working papers and audit documentation.
- Generating automated audit findings and exception reports.
- Communicating data-driven audit results to management.
- Ensuring audit evidence integrity and regulatory compliance.
- Global case study: Technology-enabled audit reporting in international public sector institutions.
- Practical exercise: Developing a comprehensive CAATs audit report.

Training Methodology

- Instructor-led presentations and interactive discussions.
- Practical demonstrations using computer-assisted audit software.
- Hands-on exercises involving financial and operational datasets.
- International case studies and real-world audit scenarios.
- Group assignments, simulations, and collaborative problem-solving.
- Practical assessments, feedback, and knowledge-sharing sessions.

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/computer-assisted-audit-techniques-caats-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.