



Fraud Analytics for Internal Auditors

16 – 20 August 2027
Kigali (Rwanda)



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Ref: 121733_1044843 **Date:** 16 – 20 August 2027 **Location:** Kigali (Rwanda) **Fees:** 5300 Euro

Introduction

This Fraud Analytics for Internal Auditors course explores the principles of fraud analytics in modern auditing environments. It focuses on how internal auditors detect and prevent fraudulent activities using data-driven methods. Participants will understand how analytics strengthens audit accuracy and risk assessment. The program highlights practical approaches to identifying anomalies and suspicious patterns. It explains the role of technology in enhancing audit efficiency. It builds a strong foundation in fraud detection and audit analytics practices.

Targeted Groups

This Fraud Analytics for Internal Auditors training targets professionals seeking knowledge and skills:

- Internal auditors aiming to improve fraud detection skills.
- Compliance officers are responsible for risk monitoring.
- Finance professionals are involved in auditing processes.
- Risk management specialists handling organizational threats.
- Accounting staff working with audit data.
- Data analysts supporting audit functions.
- Governance professionals oversee control systems.
- Professionals entering internal audit and fraud prevention roles.

Course Objectives

Participants will achieve the following objectives by completing the Fraud Analytics for Internal Auditors course:

- Understand core concepts of fraud analytics and internal audit integration.
- Identify fraud risks using structured audit analytics techniques.
- Apply data analysis methods to detect financial irregularities early.
- Evaluate fraud indicators using anomaly detection tools and models.
- Strengthen audit decision-making through evidence-based insights.
- Develop skills in continuous auditing and monitoring frameworks.
- Interpret audit data for improved fraud risk management outcomes.
- Enhance reporting accuracy in fraud investigation processes.
- Utilize forensic accounting principles in audit evaluations.
- Improve organizational control systems using analytical approaches.

Targeted Competencies

Participants will gain the following competencies during the Fraud Analytics for Internal Auditors program:

- Ability to detect fraud patterns using audit analytics tools.
- Skill in applying internal audit techniques for risk identification.
- Competence in analyzing financial data for irregularities.
- Understanding of fraud risk management frameworks.
- Ability to perform anomaly detection in audit environments.
- Skill in interpreting large datasets for audit conclusions.
- Capability to support forensic accounting investigations.
- Knowledge of continuous auditing and monitoring systems.
- Strengthened analytical thinking for audit decision-making.

Studying Scenarios

In this Fraud Analytics for Internal Auditors training, participants develop skills through the following scenarios:

- Identifying suspicious transactions using audit analytics dashboards in financial records.
- Detecting payroll fraud patterns through structured data review techniques.
- Analyzing procurement data to uncover vendor manipulation risks.
- Investigating expense claims using anomaly detection methods.
- Applying continuous auditing to monitor real-time financial activities.
- Evaluating internal control weaknesses through fraud risk indicators.

Course Content

Unit 1: Foundations of Fraud Analytics in Internal Auditing

- Introduction to fraud analytics and its role in internal audit functions.
- Understanding fraud types in organizational financial systems.
- Overview of fraud risk management principles in auditing environments.
- Importance of data analytics for auditors in modern organizations.
- Relationship between internal audit and fraud detection systems.
- Key concepts of audit analytics and structured data review methods.
- Evolution of digital tools in fraud detection and monitoring processes.

Unit 2: Fraud Risk Identification and Assessment

- Identifying high-risk areas within financial and operational systems.
- Techniques for assessing fraud risk exposure in organizations.
- Understanding behavioral indicators of fraudulent activity.
- Risk scoring methods in internal audit processes.
- Mapping fraud risks using structured audit frameworks.
- Evaluating control weaknesses that contribute to the occurrence of fraud.
- Prioritizing audit focus based on risk assessment results.

Unit 3: Audit Analytics Techniques and Tools

- Introduction to audit analytics tools used in fraud detection.
- Data extraction and preparation for audit analysis processes.
- Use of anomaly detection techniques in financial datasets.
- Pattern recognition methods for identifying irregular transactions.
- Application of statistical analysis in internal audit reviews.
- Visualization techniques for audit reporting and insights.
- Integration of technology in continuous audit analytics.

Unit 4: Fraud Detection and Investigation Methods

- Techniques for identifying fraudulent financial transactions.
- Investigating suspicious patterns using forensic accounting principles.
- Conducting data-driven fraud investigations in audit environments.
- Reviewing digital evidence in internal audit processes.
- Linking audit findings to fraud risk indicators.
- Applying continuous auditing for real-time fraud detection.
- Strengthening investigation, reporting, and documentation practices.

Unit 5: Continuous Auditing and Fraud Prevention Systems

- Designing continuous auditing frameworks for organizations.
- Implementing real-time monitoring systems for fraud prevention.
- Enhancing internal controls using audit analytics insights.
- Developing proactive fraud risk mitigation strategies.
- Using predictive analytics for fraud prevention planning.
- Improving governance structures through audit intelligence.
- Strengthening organizational resilience against financial fraud.

Final Insights & Key Takeaways

Fraud analytics strengthens the effectiveness of internal audit by enabling early detection of financial irregularities. Organizations that integrate audit analytics and continuous monitoring achieve greater control efficiency and reduced exposure to fraud risk.