



Course : Data Analysis for Internal Auditing

City :	Cairo	Hotel :	Cairo Marriott Hotel & Omar Khayyam Casino
Start Date :	2025-12-14	End Date :	2025-12-18
Duration :	1 Week	Price :	3950 \$

Course Overview

The Data Analysis for Internal Auditing training course is designed for professionals who aim to elevate their auditing capabilities by harnessing the power of data-driven insights. In an era where data is at the heart of decision-making, internal auditors must go beyond traditional auditing practices and adopt advanced analytical techniques to uncover risks, detect anomalies, and deliver actionable insights. This program equips participants with the knowledge, tools, and practical experience to transform the auditing process from routine checks into a proactive, strategic function. Through hands-on exercises and real-world datasets, attendees will gain the ability to extract meaningful patterns, enhance audit quality, and drive value across their organizations.

By the end of this training course, participants will be able to leverage modern data analysis tools and methodologies to strengthen compliance, improve efficiency, and foster informed decision-making.

Key Highlights:

- Core Principles of Data Analytics: Application of data analysis within internal auditing.
- Data-Driven Audit Strategies: Designing and implementing analytics-based audit plans.
- Practical Tools & Techniques: Proficiency in Excel, SQL, and specialized auditing software.
- Risk Identification & Mitigation: Using data insights to detect and address potential risks.

Course Objectives

Upon completion of this training course, participants will be able to:

- Understand and apply data analytics principles in auditing.
- Develop data-driven audit strategies and approaches.
- Analyze datasets to identify patterns, anomalies, and trends.
- Utilize advanced tools for effective data analysis.
- Design and implement risk management frameworks using analytics.

Target Audience

This course is ideal for professionals seeking to apply data analysis within auditing and risk management, including:

- Internal Auditors
- Compliance Officers
- Risk Managers
- Finance Professionals
- Data Analysts in audit/compliance roles
- Business Managers overseeing internal controls

Methodology

This program combines interactive lectures, hands-on exercises, and group discussions to maximize learning and application. Participants will engage in collaborative projects, live tool demonstrations, and practical case studies. Continuous feedback and real-time assessments will reinforce concepts and ensure skill development throughout the course.

Course Outline

DAY 1 :Introduction to Data Analysis and Auditing

- Overview of Data Analytics in Auditing
- Fundamentals of Data Analytics
- Understanding Audit Objectives
- Data Collection & Preparation
- Introduction to Analysis Tools

DAY 2 :Advanced Data Analysis Techniques

- Exploratory Data Analysis (EDA)
- Statistical & Trend Analysis
- Data Visualization Techniques
- Anomaly Detection
- Correlation & Regression Analysis

DAY 3 :Integrating Data Analysis with Audit Processes

- Designing Data-Driven Audit Plans
- Risk Assessment through Analytics
- Effective Audit Queries & Sampling

- Benchmarking & Performance Metrics
- Reporting Analytical Findings

DAY 4 :Advanced Tools and Techniques

- Advanced Excel for Analytics
- SQL for Data Retrieval & Analysis
- Overview of Audit Analytics Software
- Automating Data Analysis
- Big Data Applications in Auditing
- Integrating Multiple Data Sources

DAY 5 :Practical Application and Future Trends

- Applied Case Studies & Skills Practice
- Ethics & Data Privacy in Auditing
- Emerging Trends in Data Analytics
- Developing Data-Driven Audit Strategies
- Communicating Findings Effectively
- Evaluating Audit Performance

Certificates

On successful completion of this training course, HighPoint Certificate will be awarded to the delegates. Continuing Professional Education credits (CPE): In accordance with the standards of the National Registry of CPE Sponsors, one CPE credit is granted per 50 minutes of attendance.