



Audit, Risk and Governance

Internal Audit Analytics: Data and Visualization

Course Introduction

DATA VISUALIZATION

This training program is designed to equip professionals with the essential and relevant knowledge, concepts, and techniques in handling data and incorporating data visualization in audit analytics.

This program will enable participants to utilize Excel and its features in creating visuals and spreadsheets for audits.

Target Audience

- Chief Audit Executives
- Audit Managers and Directors
- Internal Auditors
- Risk Managers
- Compliance Officers
- Data Analysts in Audit Departments
- Finance and Accounting Professionals
- IT Auditors
- Business Managers

Learning Objectives

- Enhance knowledge and upscale internal auditing skills.
- Recognize the common causes of error in spreadsheets.
- Manage and utilize data to create persuasive results during the fieldwork phase of an audit.

- Use Excel in handling data for audit including Excel statistics, data matching, sortation, filtering.
- Identify Excel features to enhance and create data visuals for audit reports.
- List the various external data sources and create dashboards using free free-standing products such as power bi and tableau.

Course Outline

• 01 DAY ONE

Introduction to Internal Audit Analytics

- What is the difference between data analytics and audit analytics?
- Benefits of data analytics for internal audit
- Who uses audit analytics?
- When can audit analytics be used?
- Data analytics literature.
- Internal audit literature.
- Theories and Models in Visual Representation Literature
- Data analytics strategies for internal auditors.

• 02 DAY TWO

Data Analytics and Handling (Using Excel)

- Introduction to Excel importance for Internal Audit analytics.
- Checking the Integrity of spreadsheets.
- Common error sources.
- Identify Invalid data and formulae precedents.
- Recording macros.
- Re-performance and virtual calculations.
- How to use Excel statistics?
- Filtering and stratification.
- How Pivot tables, pivot charts and slicers help internal audit analytics?
- Creating an audit workpaper within excel

- Simple and complex sortation.
- What is Fuzzy data matching and how it works?
- Replicating what other paid-for software can do by substituting excel
- How Formulae work?

• 03 DAY THREE

External Data Sources:

- Why to connect with external data?
- Your Guide to import Data into excel.
- How to create and edit queries?
- Transforming data and creating transformation rules.
- Interacting with data sources to refresh data.
- Creating dashboards using free free-standing products such as Power BI and tableau.

• 04 DAY FOUR

External Data Sources:

- Why to connect with external data?
- Your Guide to import Data into excel.
- How to create and edit queries?
- Transforming data and creating transformation rules.
- Interacting with data sources to refresh data.
- Creating dashboards using free free-standing products such as Power BI and tableau.

• 05 DAY FIVE

Practical Workshop.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 4, 2025	May 8, 2025	5 days	4250.00 \$	KSA - Riyadh
Aug. 18, 2025	Aug. 22, 2025	5 days	4250.00 \$	UAE - Dubai
Nov. 17, 2025	Nov. 21, 2025	5 days	4950.00 \$	Netherlands - Amsterdam