

AUDIT AND ANALYTICS

COURSE OVERVIEW

This course bridges the gap between traditional auditing practices and modern data analytics. Participants will learn how to leverage analytics tools to enhance audit effectiveness, identify risks, detect anomalies, and generate actionable insights. This course includes hands-on practice with Power BI and Excel to develop real-world audit analytics skills.

TARGET COMPETENCIES

- Analytical Problem Solving.
- Data Visualization Skills.
- Risk Identification Techniques.
- Audit Analytics Proficiency.
- Emerging Technology Awareness.

COURSE OBJECTIVES

By completely attending this course, participants will be able to:

- Understand the role of analytics in modern auditing.
- Use Power BI and Excel for performing audit analytics.
- Conduct risk assessment and detect anomalies using analytics.
- Apply data visualization techniques to enhance audit reporting.
- Explore the impact of emerging technologies on audit practices.

TARGET AUDIENCE

- Internal and external auditors.
- Financial analysts and accountants.
- Compliance officers and risk managers.
- Professionals interested in leveraging analytics in auditing.

NOTE

This course requires participants to bring their own laptops with a Windows operating system and Excel 2019/365 fully installed.

COURSE METHODOLOGY

The course employs an interactive and practical methodology, including Instructor-led sessions, with hands-on exercises using Power BI and Excel.

COURSE OUTLINE

INTRODUCTION TO AUDIT AND ANALYTICS

- Overview of audit analytics.
- Significance and benefits of integrating analytics.
- Evolution of auditing with data-driven tools.
- Analytical mindset in auditing.
- Role of analytics in risk identification.
- Software setup and familiarization with Power BI.

RISK ASSESSMENT AND PRELIMINARY ANALYTICS

- Descriptive and inferential statistics for auditing.
- Understanding key statistical measures (mean, variance, standard deviation).
- Applying statistical insights for identifying risks.
- Data visualization techniques using Power BI.
- Creating visualizations in Power BI (bar charts, line charts, and scatter plots).

ADVANCED AUDIT ANALYTICS

- Exploratory data analysis (EDA) and visualization.
- Identifying patterns, correlations, and outliers in audit data.
- Techniques for effective EDA using Power BI.
- Advanced Excel functions for audit analytics.
- Utilizing Pivot Tables for data summarization.
- Applying XLOOKUP and conditional formatting for data analysis.

ANOMALY DETECTION AND ANALYSIS

- Introduction to anomaly detection in auditing.
- Applying Benford's Law for detecting irregularities in financial data.
- Sequence and gap analysis for anomaly detection.
- Identifying missing or duplicated entries in datasets.
- Data cleaning and transformation using Power BI.

EMERGING TECHNOLOGIES AND CONTINUOUS AUDITING

- Real-time auditing: concepts and benefits.
- Implementing continuous auditing with analytics tools.
- Emerging technologies in auditing.
- Overview of blockchain, RPA (Robotic Process Automation), and AI.

To register or for complete course information

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