



Data Analytics and Financial Statements

5 days

R27999

Programme Overview

The **Data Analytics & Financial Statements** course is designed to equip participants with practical data analytics skills that enhance financial statement preparation, analysis, and interpretation. Participants will learn how to apply analytical techniques to financial data, identify trends and anomalies, improve reporting quality, and strengthen financial decision-making.

Key Programme Objectives

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

- ▽ Understand the role of data analytics in financial reporting and decision-making
- ▽ Learn techniques to analyze financial statement data effectively
- ▽ Identify trends, patterns, and anomalies in financial information
- ▽ Improve financial statement analysis using analytical tools and techniques
- ▽ Enhance risk detection and fraud identification through data analysis
- ▽ Strengthen data-driven financial decision-making

Target Audience

The programme can be attended by:

- ▽ Chief Financial Officers (CFOs)
- ▽ Financial Managers
- ▽ Accountants and Financial Reporting Professionals
- ▽ Financial Analysts
- ▽ Internal and External Auditors
- ▽ Risk and Compliance Professionals
- ▽ Finance Business Partners
- ▽ Data and Business Analysts working with financial data

Day 1 Programme

Foundations of Data Analytics in Finance

Module 1: Introduction to Data Analytics for Finance

- ▽ The evolution of finance in the digital age
- ▽ Role of data analytics in financial reporting
- ▽ Types of financial data and data sources
- ▽ Overview of analytics tools used in finance

Module 2: Data Fundamentals

- ▽ Structured vs unstructured financial data
- ▽ Data collection and preparation
- ▽ Data quality and integrity in financial reporting
- ▽ Managing large financial datasets

Module 3: Data Visualization for Financial Insights

- ▽ Principles of effective financial visualization
- ▽ Charts and dashboards for financial analysis
- ▽ Communicating financial insights using visuals

Practical Workshop

- ▽ Basic financial data exploration exercise



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Day 2 Programme

Financial Statement Analysis Using Data Analytics

Module 4: Analytical Review of Financial Statements

- ▽ Analytical procedures in financial analysis
- ▽ Ratio analysis using datasets
- ▽ Trend analysis and benchmarking

Module 5: Profitability and Performance Analytics

- ▽ Revenue analysis techniques
- ▽ Margin analysis
- ▽ Cost behavior and operational efficiency

Module 6: Cash Flow and Liquidity Analytics

- ▽ Analyzing cash flow patterns
- ▽ Liquidity and solvency indicators
- ▽ Identifying financial stress signals

Practical Workshop

- ▽ Financial ratio analysis using datasets

Day 3 Programme

Advanced Financial Data Analysis

Module 7: Predictive Analytics in Finance

- ▽ Forecasting financial performance
- ▽ Budget variance analysis
- ▽ Predicting financial trends

Module 8: Identifying Anomalies and Risks

- ▽ Detecting unusual transactions
- ▽ Identifying data outliers
- ▽ Analytical techniques for risk detection

Module 9: Fraud Detection Using Data Analytics

- ▽ Common financial fraud indicators
- ▽ Data-driven fraud detection techniques
- ▽ Continuous monitoring approaches

Practical Workshop

- ▽ Financial anomaly detection exercise

Day 4 Programme

Data Analytics for Financial Reporting and Audit

Module 10: Data Analytics in Financial Reporting

- ▽ Improving accuracy and reliability of financial reports
- ▽ Data validation techniques
- ▽ Automated reporting processes

Module 11: Data Analytics in Internal Audit

- ▽ Analytical procedures in auditing
- ▽ Risk-based auditing using data analytics
- ▽ Continuous auditing and monitoring

Module 12: Regulatory and Compliance Considerations

- ▽ Data governance in financial reporting
- ▽ Documentation and audit trail requirements

Practical Workshop

- ▽ Data-driven financial reporting review exercise

Day 5 Programme

Strategic Financial Analysis and Decision-Making

Module 13: Strategic Financial Insights

- ▽ Using analytics for business strategy
- ▽ Performance dashboards for management

Module 14: Data-Driven Financial Decision-Making

- ▽ Scenario analysis
- ▽ Sensitivity analysis
- ▽ Supporting management decisions with data

Module 15: Emerging Technologies in Finance

- ▽ Artificial Intelligence in finance
- ▽ Machine learning in financial analytics
- ▽ The future of finance and data

Final Practical Session

- ▽ Integrated financial data analytics case study
- ▽ Presentation of insights and recommendations