

ADVANCED DATA ANALYTICS FOR ACCOUNTING & FINANCIAL MANAGEMENT

"Unlock the Power of Data to Transform Accounting and Financial Management Practices"

Schedule

Date	Venue	Fees (Face-to-Face)
06 - 10 Jul 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

This comprehensive course offers a deep dive into the use of advanced data analytics techniques in accounting and financial management. It covers the essential tools and methodologies used in the financial sector to drive decision-making, improve forecasting, and streamline financial reporting. Participants will learn how to apply data-driven insights to solve complex financial challenges and optimize business performance.

Through hands-on sessions, case studies, and real-world examples, this course will provide participants with the practical skills needed to leverage data analytics for enhanced financial analysis, budgeting, and financial planning.

Objectives

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

- Understand the principles and tools of advanced data analytics in financial management
- Utilize data visualization techniques to present financial data effectively
- Apply statistical models and machine learning algorithms to financial forecasting
- Optimize financial decision-making through data-driven insights
- Improve budgeting, risk assessment, and financial reporting with data analytics tools

Why Attend

- Gain expertise in leveraging data analytics for more accurate financial reporting and decision-making
- Learn how to apply statistical models and machine learning in financial management
- Master the art of presenting financial data in a clear and impactful way
- Improve your ability to forecast financial trends and assess financial risks
- Gain a competitive edge in the finance industry by mastering advanced data tools

Target Audience

This program is designed for:

- Accounting and finance professionals seeking to integrate advanced analytics into their workflow
- Financial analysts and accountants looking to enhance their data-driven decision-making skills
- CFOs and senior financial managers responsible for financial planning and analysis
- Data analysts working within the accounting and finance sectors
- Anyone interested in understanding how data analytics can be used to improve financial management

Individual Benefits

Key competencies that will be developed include:

- Proficiency in using data analytics tools and techniques for financial decision-making
- Enhanced ability to interpret and analyze complex financial data
- Advanced skills in financial forecasting, budgeting, and financial modeling
- Expertise in presenting data insights clearly using data visualization tools
- Strong understanding of machine learning and statistical methods applied to finance

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved financial forecasting and decision-making capabilities within the organization
- Enhanced financial reporting and analysis using data-driven insights
- Better risk management strategies through predictive analytics
- Increased efficiency in financial operations and planning
- The ability to communicate complex financial data effectively to stakeholders

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Introduction to advanced data analytics tools and methodologies in financial management
- Case Studies - Real-world examples of how data analytics is applied in financial decision-making
- Workshops - Hands-on exercises with financial data to practice analysis, forecasting, and reporting
- Peer Exchange - Group discussions on the challenges and opportunities in applying data analytics in finance
- Tools - Templates and software tools for financial analysis, budgeting, and reporting

MAWA EVENTS

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Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Data Analytics in Financial Management

- Module 1: Overview of Data Analytics in Finance (07:30 – 09:30)
 - The role of data analytics in modern financial management
 - Key tools and software used in financial data analysis
 - Overview of financial metrics and KPIs
- Module 2: Data Collection and Preparation (09:45 – 11:15)
 - Methods of gathering and cleaning financial data
 - Data normalization and transformation techniques
 - Best practices for organizing large financial datasets
- Module 3: Introduction to Financial Data Visualization (11:30 – 01:00)
 - Principles of data visualization in finance
 - Introduction to tools like Excel, Power BI, and Tableau
 - Creating simple visualizations of financial data

Day 2: Advanced Financial Modeling and Forecasting

- Module 4: Financial Forecasting Techniques (07:30 – 09:30)
 - Introduction to time-series analysis for forecasting financial trends
 - Using moving averages, exponential smoothing, and ARIMA models
 - Forecasting future revenues and expenses
- Module 5: Advanced Statistical Analysis in Finance (09:45 – 11:15)
 - Regression analysis and correlation in financial data
 - Understanding risk and return using statistical models
 - Applying statistical tests to financial performance
- Module 6: Workshop: Financial Forecasting in Action (11:30 – 01:00)
 - Hands-on practice with financial forecasting models
 - Group exercises on forecasting revenues, costs, and investments
 - Peer feedback on forecasting accuracy

Day 3: Machine Learning in Financial Management

- Module 7: Introduction to Machine Learning in Finance (07:30 – 09:30)
 - Overview of machine learning algorithms in financial analysis
 - Supervised vs. unsupervised learning in finance
 - Examples of machine learning applications in financial decision-making
- Module 8: Building Predictive Models (09:45 – 11:15)
 - Introduction to predictive modeling in financial markets
 - Building machine learning models for credit scoring and fraud detection
 - Hands-on training with simple machine learning models using financial datasets
- Module 9: Case Study: Machine Learning in Financial Risk Management (11:30 – 01:00)
 - Real-world examples of machine learning in financial risk assessment
 - Group analysis of financial risk management through machine learning

Day 4: Optimizing Financial Decision-Making with Data

- Module 10: Data-Driven Decision Making (07:30 – 09:30)
- The role of data in strategic financial decision-making
- Using analytics to optimize budgeting and capital allocation
- Data-driven investment decision strategies
- Module 11: Budgeting and Financial Planning with Analytics (09:45 – 11:15)
- Techniques for integrating data analytics into budgeting processes
- Financial planning using scenario analysis and forecasting tools
- Creating dynamic budgets that adapt to changing financial conditions
- Module 12: Workshop: Financial Decision Making Using Analytics (11:30 – 01:00)
- Hands-on group work on optimizing financial decisions using data
- Applying analytics to determine the best investment and funding strategies

Day 5: Implementing Data Analytics in Financial Reporting

- Module 13: Data Analytics for Financial Reporting (07:30 – 09:30)
- Best practices for using data analytics in financial reporting
- Automating financial reporting using tools like Power BI and Tableau
- Creating interactive financial dashboards for stakeholders
- Module 14: Risk Management with Data Analytics (09:45 – 11:15)
- Understanding financial risk and uncertainty with data analysis
- Using predictive analytics for financial risk management
- Developing risk management frameworks based on data insights
- Module 15: Final Workshop: Implementing Financial Analytics in Practice (11:30 – 01:00)
- Group exercise on implementing a financial reporting dashboard
- Presentation of final group projects
- Review of key learnings and feedback

Certification

Participants will receive a Certificate of Completion in Advanced Data Analytics for Accounting & Financial Management, demonstrating their expertise in using data analytics to enhance financial reporting, forecasting, and decision-making processes.

Why Choose MAWA Events

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In-House / Customized Training

Interested in running this course for your team?

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