

ADVANCED POWER BI

“Unlocking the Full Potential of Power BI for Advanced Data Analysis and Visualization”

Schedule

Date	Venue	Fees (Face-to-Face)
11 – 15 May 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Power BI is one of the most powerful data visualization and analysis tools available today. This 5-day course is designed for professionals who already have a basic understanding of Power BI and want to advance their skills to master data modeling, complex calculations, and advanced reporting techniques.

Participants will gain in-depth knowledge of advanced Power BI features, including DAX functions, Power Query, advanced visualizations, and custom report development. By the end of the course, you will be able to transform complex data into compelling insights and share them through interactive, customized dashboards and reports.

Objectives

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

- Understand advanced data modeling techniques and improve the quality of their Power BI reports.
- Use advanced DAX functions to create complex calculations and enhance report interactivity.
- Apply advanced Power Query techniques to clean, transform, and load data effectively.
- Create custom visualizations and enhance the user experience with interactive reports.
- Optimize Power BI models for performance and scalability.
- Share and publish Power BI reports securely for internal and external stakeholders.

Why Attend

- Enhance your data analysis skills by learning advanced features of Power BI.
- Master DAX (Data Analysis Expressions) to create complex calculations and improve report functionality.
- Learn how to design interactive and visually compelling dashboards for business decision-making.
- Improve data transformation techniques with advanced Power Query capabilities.
- Optimize the performance of large datasets and reports for faster, more efficient reporting.
- Gain hands-on experience in developing customized Power BI reports and dashboards that meet your organization's needs.

Target Audience

This program is designed for:

- Data analysts and business intelligence professionals looking to improve their Power BI skills.
- Professionals who want to master Power BI's advanced features for data modeling, reporting, and visualization.
- IT professionals and data engineers who work with large datasets and require more advanced data analysis and reporting capabilities.
- Decision-makers who want to leverage Power BI for strategic data-driven insights.
- Anyone with a basic understanding of Power BI who wants to take their skills to the next level.

Individual Benefits

Key competencies that will be developed include:

- Advanced understanding of Power BI's data modeling and visualization capabilities.
- Proficiency in using DAX for complex calculations and enhancing data interactivity.
- Ability to create custom, interactive reports and dashboards for diverse business needs.
- Mastery of Power Query for efficient data transformation, preparation, and analysis.
- Enhanced report performance and optimization techniques for handling large datasets.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced ability to create comprehensive, data-driven reports and dashboards for decision-making.
- Increased efficiency in transforming and modeling large datasets into actionable insights.
- Ability to share insights through interactive, user-friendly Power BI reports and dashboards.
- Improved collaboration between teams through customized Power BI solutions tailored to organizational needs.
- Increased data visibility and performance optimization for better business outcomes.

Instructional Methodology

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

- Strategy Briefings - In-depth explanations of advanced Power BI concepts, features, and functions.
- Case Studies - Real-world examples showcasing the use of advanced Power BI features in various industries.
- Workshops - Hands-on exercises where participants apply advanced techniques for data modeling, DAX calculations, and report creation.
- Peer Exchange - Group discussions to share experiences, challenges, and best practices.
- Tools - Practical tools, templates, and techniques for implementing advanced Power BI solutions.

MAWA EVENTS

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Course Outline

Training Hours: 9:00 AM – 4:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 10:30 & 12:00 | Lunch Buffet: 01:00 – 02:00

Day 1: Advanced Data Modeling Techniques in Power BI

- Module 1: Introduction to Advanced Data Modeling (09:00 – 11:00)
- Understanding relationships and modeling techniques in Power BI
- How to use star and snowflake schemas for data models
- Best practices for creating effective data models
- Module 2: Using DAX for Complex Calculations (11:15 – 01:00)
- Introduction to DAX and its role in Power BI
- Writing basic DAX expressions and understanding row-level calculations
- Using DAX for filtering, aggregating, and time-based calculations
- Module 3: Advanced DAX Functions and Optimization (02:00 – 04:30)
- Advanced DAX functions: CALCULATE, FILTER, ALL, etc.
- Optimizing DAX formulas for performance
- Debugging and troubleshooting DAX formulas

Day 2: Advanced Power Query Techniques

- Module 1: Introduction to Power Query (09:00 – 11:00)
- Power Query editor and its capabilities for data transformation
- Advanced techniques for data cleaning, reshaping, and merging datasets
- How to automate repetitive tasks using Power Query
- Module 2: M Language for Custom Transformations (11:15 – 01:00)
- Introduction to M language and its role in Power Query
- Writing custom transformations using M functions
- Best practices for data transformation and loading
- Module 3: Combining and Appending Data from Multiple Sources (02:00 – 04:30)
- Combining data from different sources using Power Query
- Data appending and merging techniques for large datasets
- Handling errors and data validation in Power Query

Day 3: Advanced Visualizations and Custom Reports

- Module 1: Advanced Visualizations in Power BI (09:00 – 11:00)
- Creating complex visuals: gauges, maps, and custom visuals
- Best practices for choosing the right visual for your data
- Enhancing interactivity with slicers, filters, and drill-through features
- Module 2: Customizing Reports and Dashboards (11:15 – 01:00)
- Designing visually appealing and intuitive reports
- Creating custom themes and layouts for Power BI reports
- Using bookmarks and buttons for dynamic navigation
- Module 3: Developing Interactive Dashboards (02:00 – 04:30)
- Best practices for designing dashboards that drive insights
- Integrating multiple visualizations into cohesive dashboards
- Publishing and sharing Power BI reports for collaboration

Day 4: Power BI Optimization and Performance Tuning

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Module 1: Optimizing Data Models for Performance (09:00 – 11:00)

- Techniques for optimizing Power BI models for faster processing
- Reducing file sizes and improving report performance
- How to manage large datasets in Power BI

Module 2: Query Performance and Optimization (11:15 – 01:00)

- Best practices for improving Power Query performance
- Identifying bottlenecks in queries and data transformation
- Using incremental data loads for large datasets

Module 3: Power BI Service and Cloud Integration (02:00 – 04:30)

- Publishing reports to Power BI Service
- Connecting Power BI to cloud data sources and using direct query
- Collaboration and sharing reports in Power BI Service

Day 5: Sharing, Collaboration, and Advanced Power BI Features**Module 1: Sharing and Publishing Power BI Reports (09:00 – 11:00)**

- Sharing reports with colleagues and clients securely
- Understanding Power BI licensing and user access levels
- Collaborating on Power BI reports and dashboards in the cloud

Module 2: Advanced Features in Power BI (11:15 – 01:00)

- Introduction to Power BI APIs and embedding Power BI in other applications
- Power BI and Excel integration for enhanced analysis
- Using Power BI for predictive analytics and machine learning integration

Module 3: Final Workshop and Q&A (02:00 – 04:30)

- Hands-on workshop where participants work on creating complex Power BI reports and dashboards
- Open Q&A session and feedback
- Certificate distribution and course wrap-up

Certification

Upon completing the training course, participants will receive a Certificate of Completion in Advanced Power BI, recognizing their ability to utilize advanced data modeling, DAX, Power Query, and visualization techniques to create complex reports and dashboards, optimize performance, and share insights through Power BI.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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In-House / Customized Training

Interested in running this course for your team?

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