informatech

IT MANAGEMENT AND CYBER SECURITY | COURSE

# Microsoft Power BI: Data Analysis & AI Dashboards

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# Course content

## Why Attend

### Course Introduction

In today's data-driven world, organizations must adapt to harness the power of data for informed decision-making. Power BI, a leading business intelligence tool, enables users to convert raw data into valuable insights, empowering decision-makers to make strategic choices. The Microsoft Power BI: Data Analysis & AI Dashboards training course goes beyond the basics, exploring advanced data analytics and AI integration to elevate reporting. Participants will learn how to use Power BI's powerful features for data loading, transformation, and visualization, enabling them to design dashboards that offer clear insights into business performance, opportunities, and challenges.

The course focuses on leveraging AI to generate predictive insights and identify hidden patterns, equipping professionals with the tools to forecast trends and understand the factors driving business outcomes.

Throughout the program, attendees will gain hands-on experience with advanced DAX calculations, AI-driven visuals, and automated forecasting to build interactive, real-time dashboards that support key decision-making.

By mastering these skills, participants will be well-equipped to lead strategic initiatives and foster a culture of data-driven innovation within their organizations.

This course is ideal for business analysts, data professionals, and leaders looking to enhance their reporting capabilities and use data as a strategic asset in today's complex business landscape.

## Course Methodology

This training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes an interactive mixture of lecture-led learning & group discussions.

### Who should Attend?

This training course is suitable to a wide range of professionals but will greatly benefit:

• Business analysts, data professionals, and managers seeking to leverage Power BI and AI for data insights

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## Course Methodology

• Executives and decision-makers looking to enhance their understanding of data-driven dashboards

• Professionals in finance, marketing, sales, and operations aiming to integrate AI-driven analytics into their reporting

## Course Objectives

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

• Learn to use Power BI to connect, clean, and transform business data

• Develop skills to create dynamic dashboards and reports for in-depth data analysis

• Understand AI and machine learning capabilities in Power BI

• Utilize advanced data modeling and visualization techniques for effective storytelling

• Gain the ability to apply AI-powered analytics to identify trends, forecasts, and patterns

## Course outline

### Day One: Fundamentals of Power BI and Data Loading

• Introduction to Power BI interface and functionalities

• Connecting to various data sources (databases, cloud, Excel, etc.)

• Data loading, cleaning, and transformation with Power Query Editor

• Hands-on: Setting up and loading data for analysis

### Day Two: Data Modeling and DAX for Data Analysis

• Overview of data modeling in Power BI for efficient reporting

• Introduction to DAX (Data Analysis Expressions) for calculations and custom measures

• Using DAX to create calculated columns, measures, and more complex formulas

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## Course outline

• Hands-on: Building a data model and using DAX for data analysis

### Day Three: Designing Dashboards for Data Analysis

• Principles of effective data visualization for business insights

• Creating dynamic and interactive dashboards with visuals (charts, KPIs, tables)

• Adding drill-throughs, tooltips, and interactive slicers for user experience

• Best practices in dashboard design for clear and concise data storytelling

• Hands-on: Designing a data analysis dashboard with Power BI visuals

### Day Four: Integrating AI and Machine Learning in Power BI

• Overview of AI features in Power BI: Q&A visual, AI visuals, and Cognitive Services

• Using the Key Influencers visual to analyze factors impacting outcomes

• AI-driven clustering and segmentation of data for deeper insights

• Applying forecasting models and time-series analysis

• Hands-on: Creating AI-driven visuals to identify patterns and insights

### Day Five: Advanced Reporting and Publishing AI Dashboards

• Integrating Power BI dashboards with Microsoft Teams and SharePoint

• Publishing and sharing dashboards securely in Power BI Service

• Optimizing dashboards for performance and mobile access

• Final hands-on project: Creating an AI-powered dashboard to demonstrate business insights

• Course wrap-up and Q&A

# Seminar dates

## Available seminar dates

Live dates and pricing for Microsoft Power BI: Data Analysis & AI Dashboards generated from the course details page.

| Date | Location | Format | Fee |
|---|---|---|---|
| 20 - 24 July 2026 | Frankfurt - Germany | Classroom | **€3,250.-** |
| 3 - 7 August 2026 | Rome - Italy | Classroom | **€4,250.-** |
| 7 - 11 September 2026 | Kuala lumpur - Malaysia | Classroom | **€2,250.-** |
| 12 - 16 October 2026 | Barcelona - Spain | Classroom | **€3,850.-** |
| 9 - 13 November 2026 | London - U.K | Classroom | **€4,200.-** |
| 14 - 18 December 2026 | Munich - Germany | Classroom | **€3,450.-** |

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|---|---|
| **Live online option** | Online delivery is available at €1,850.-. |