

Business Intelligence with Power BI

Course code: PSM-004



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info@sparktraining.eu

+31 85 115 0004 | sparktraining.eu

— Workshop Overview

The Business Intelligence with Power BI training course is designed to give participants a thorough understanding of Business Intelligence (BI) concepts while equipping them with practical skills to use Power BI for data visualization, analysis, and reporting. As a leading BI tool, Power BI allows users to connect, transform, and visualize data in impactful ways that support informed business decision-making. Through hands-on exercises, participants will learn how to create interactive reports and dashboards that bring data to life, making Power BI an indispensable tool for data-driven organizations.

Why Attend

This course uses instructor-led sessions, guided discussion, and practical exercises built around Day One: Introduction to Business Intelligence and Power BI Fundamentals, Day Two: Data Transformation and Preparation Using Power Query, Day Three: Data Modeling and DAX Basics, and day four: visualizing data with power

Who Should Attend

Business analysts, data analysts, and data scientists who want to leverage BI tools for enhanced analytics
Professionals from various industries who work with data and seek to improve their data reporting skills
Decision-makers who wish to create data-driven

— Learning Objectives

- Understand core BI concepts and the importance of data-driven decision-making
- Navigate the Power BI interface and utilize its features for data transformation and visualization
- Import and clean data from multiple sources to prepare it for analysis
- Create interactive and visually engaging dashboards and reports
- Apply DAX (Data Analysis Expressions) to enhance analytical capabilities within Power BI
- Share insights and collaborate effectively using Power BI Service and Power BI Mobile
- Understand and implement data security and governance within Power BI

Course Outline

**DAY
1**

Day One: Introduction to Business Intelligence and Power BI Fundamentals

- Overview of Business Intelligence and its role in decision-making
- Introduction to Power BI components: Power BI Desktop, Power BI Service, and Power BI Mobile
- Power BI interface and navigation basics
- Connecting to data sources (Excel, SQL Server, web sources, etc.)
- Data import techniques and understanding data types
- Hands-on: Setting up Power BI Desktop and importing sample datasets

**DAY
2**

Day Two: Data Transformation and Preparation Using Power Query

- Introduction to Power Query and its ETL (Extract, Transform, Load) functions
- Data cleaning techniques: handling missing data, removing duplicates, filtering
- Data transformation: merging, appending, pivoting, and unpivoting data
- Creating calculated columns and tables for enhanced analysis
- Practical exercise: Transforming raw data into a structured format using Power Query

**DAY
3**

Day Three: Data Modeling and DAX Basics

- Importance of data modeling and relationships in BI
- Creating and managing data relationships in Power BI
- Introduction to DAX (Data Analysis Expressions) and its functions
- Calculated columns vs. measures
- Essential DAX functions: SUM, AVERAGE, COUNT, CALCULATE, and FILTER
- Building hierarchies and creating time intelligence in Power BI
- Hands-on practice: Developing a data model and applying basic DAX expressions

**DAY
4**

Day Four: Visualizing Data with Power BI

- Choosing the right visual for data representation: tables, charts, maps, and gauges
- Customizing visuals and formatting options for impactful storytelling
- Interactive features: slicers, filters, and drill-through for dynamic reporting
- Creating interactive dashboards with KPI indicators and scorecards
- Best practices for designing intuitive and effective reports
- Hands-on session: Building a fully interactive dashboard using sample data

DAY

5

Day Five: Publishing, Sharing, and Power BI Service

- Publishing reports to the Power BI Service and setting up workspaces
- Understanding and managing user roles and permissions
- Creating and managing datasets, reports, and dashboards in the cloud
- Introduction to Power BI Mobile for on-the-go access to reports
- Collaboration and sharing options: sharing dashboards, embedding, and export options
- Data security and governance in Power BI: Row-level security, data refresh, and scheduling
- Hands-on exercise: Publishing a report and sharing it with stakeholders

— Upcoming Classroom Dates

DATE	LOCATION	FEE
5 - 9 October 2026	Barcelona - Spain	€1,400
12 - 16 October 2026	Kuala Lumpur - Malaysia	€1,425
9 - 13 November 2026	Istanbul - Türkiye	€1,925
16 - 20 November 2026	Barcelona - Spain	€2,125
7 - 11 December 2026	Vienna - Austria	€2,100
14 - 18 December 2026	Amsterdam - Netherlands	€1,425
21 - 25 December 2026	Istanbul - Türkiye	€1,925
18 - 22 January 2027	Paris - France	€2,250

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.