

# Power BI – Get started

## Description

In this training, you will create interactive reports and dashboards. You will also learn to master Power BI Service for proficiently using the Desktop application, to understand best practices for creating high-performance reports with Power BI Desktop, and much more.

### Classroom Registration Price (CHF)

2300

### Virtual Classroom Registration Price (CHF)

2150

### Course Content

#### Module 1: Introduction to the Power BI Ecosystem

- Introduction
- Recommended Technical Configuration
- Understanding the Differences Between Licenses (Free, Pro, and Premium)
- About the Power BI Ecosystem of Languages

#### Module 2: Creating Data Sets

- Creating Data Sets from Relational Databases
- Import vs. Direct Query vs. Live Connection
- Creating Data Sets from Data Files (\*.txt, \*.accdb, \*.xlsbs, \*.csv, \*.xml, \*.json, etc.)
- Creating Data Sets from Other Sources

#### Module 3: Data Transformation

- Defining Metadata
- Filtering Rows
- Sorting Rows
- Removing Columns
- Renaming Queries
- Best Practices (naming conventions, synonyms, comments, R, Python, creating a business model, etc.)
- Combining (joining) Queries
- Creating Tables "on the Fly"

#### Module 4: Initial Work with Visuals

- Creating Visualizations in Power BI
- Configuring Fields for Visualizations
- Formatting Fields in the Modeling
- Formatting Visuals
- Trend Lines for Visuals
- Page Formatting and Configuration

#### Module 5: Visualization and Analysis

- Creating What-If Parameters
- Creating Tooltip and Drill-Through Pages
- Switching between Mobile and PC Views
- Filtering and Drilling Down on Visuals
- Segment/Dropdown Filtering
- Controlling Links between Elements and Filters
- Controlling Visual Interaction Effects
- Data Updates
- Scheduling Automatic Updates
- Exporting Data Models as Pivot Tables in Excel
- Performance Analyzer

## **Module 6: Data Management and DAX Calculations**

- Defining Metadata
- Filtering Rows
- Sorting Rows
- Removing Columns

## **Module 7: Advanced Data Organization**

- Behavior of Power Query Parameters with Power BI File Models
- Creating a Date Table
- Customization and Controls
- Creating Hierarchies or Measure Folders/Subfolders
- Configuring Properties
- Using Dynamic Parameters
- Creating a Calendar Table (in DAX)

## **Module 8: Data Relationships and DAX Measures**

- Combining (merging) Queries
- Adding a Column
- Concatenating Columns
- Creating Relationships

## **Module 9: Tools and Add-Ons**

- Related Tools (Excel Analyzer, Gateway, Report Paginator)
- Recommended Add-Ons (DAX Studio, DAX Formatter, Power BI Helper, Theme Generator, etc.)

## **Module 10: Report Publishing and Sharing**

- Publishing a Report
- Using Power BI Services Bookmarks
- Sharing a Report and Managing Shares
- Generating a QR Code for Easy Sharing
- Creating, Managing, and Using Datasets

## **Documentation**

- Digital courseware included

## **Participant profiles**

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- Engineers
  - Business analysts
  - Data analysts and financials
  - Excel users who want to automate their work more efficiently than with macros

**Prerequisites**

- No prerequisites

**Objectives**

- Have the skills to use Power BI to acquire and transform data
- Improve data for analysis and reporting and dashboards
- Prepare for Power Query, DAX and Power BI Service training

**Niveau**

Fondamental

**Duration (in Days)**

3

**Reference**

MPB-11