

Program Objective

Analyze data from single or multiple sources. **Create** your individual **dataset** based on these sources and transform your results into beautiful and **easy-to-make visualizations**. Moreover, **share your results** with your colleagues or **collaborate** on your project. Finally, **access your data** from multiple devices.

In this course you will learn why Power BI offers you a comprehensive set of Business Intelligence tools for your data analysis goals and how to use these tools to **fulfill all of the above tasks - and more**. Imagine to quickly **structure your data**, to easily **add calculations** to it and to **create and publish nice-looking charts** in just a few minutes.

This is what you will learn:

- ❖ Get to know the **different tools** of the Power BI universe and learn how to use them
- ❖ Understand **Power BI Desktop** and its components
- ❖ Learn how to use the **Query Editor** to connect Power BI to various source types, how to work on the **Data Model** and understand the difference between those two steps
- ❖ How to work in the **different views of the Data Model**
- ❖ How to create **calculated columns and measures**
- ❖ How to build **relationships** between different tables
- ❖ How to create a report with **different interactive visualization types**
- ❖ Learn how to use **Power BI service** to create dashboards and to share and publish your results
- ❖ How to access your results from multiple devices using **Power BI Mobile**

What you'll learn

- ❖ At the end of this course participants will be able to analyse data from different data sources and create their own datasets
- ❖ Participants will be able to comfortably work with the different tools of the Power BI
- ❖ universe and know how the different tools work together
- ❖ Participants will have the required knowledge to dive deeper into Power BI and find out more about its advanced features

Are there any course requirements or prerequisites?

- ❖ For the majority of the course you must have a computer with Windows as operating system
- ❖ Basic understanding of data analysis is a plus but not required

- ❖ For multiple modules of this course a work or school email address is required to sign up

Who this course is for:

- ❖ People who never worked with Power BI and who want to understand how to use these tools
- ❖ Anyone who is interested in learning how to connect the different Power BI tools with each other
- ❖ People who want to understand how to create customized visuals with the Power BI Developer tools

Modules

Module 1	Getting Started
Module 2	An Introduction to Power BI Desktop
Module 3	An Introduction to the Query Editor
Module 4	Working on our Data Model
Module 5	Working in the Report View
Module 6	Power BI Service & Power BI Mobile
Module 7	Course Roundup

Course Outline

Module 1: Getting Started

- What is Power BI?
- Installing Power BI Desktop
- Difference between app.powerbi.com and Desktop version
- Data - The most important part

Module 2: An Introduction to Power BI Desktop

- Understanding Desktop Power BI
- Introducing the Different Views of the Data Model
- Closer Look at the Query Editor Interface
- Required Power BI Settings

Module 3: An Introduction to Query Editor

- What is the Query Editor?
- Connecting Power BI Desktop to our Data Sources
- Formatting Data
- Introducing the Star Schema
- Creating the DIM Region Table
- Entering Data Manually
- Performing Mathematical Operations

Module 4: Working on our Data Model

- Query Editor vs. Data Model
- Introducing and Understanding Relationships
- Understanding Cardinality
- DAX - Basic information
- Calculated Columns vs. Measures
- Introducing DAX-Measures

Module 5: Working in the Report View

- Understanding the Interface of the Report View
- Creating our First Visualizations
- Adding Data Colors
- Introducing Slicers
- Applying different Filter Types
- Creating (Multi-Row) Cards

Module 6: Power BI Service & Power BI Mobile

- Continuing our Work and why we need Power BI Service
- Comparing Power BI Free, Pro and Premium
- Logging in to Power BI Service
- Comparing Personal and
- On-Premise Gateway and Installing a Data Gateway
- Publishing the App

Module 7: Course Roundup

- Congratulations