



## Power BI

Discover self-service business intelligence. Analyze your data, create interactive reports and share your findings throughout your organization.

### What to Expect?

This two-day training delivers the fundamentals of Power BI to get you up and running with creating powerful visualizations and analyzing your data like a pro. This training covers a wide range of topics such as data modeling, DAX measures, Power BI queries and more.

**Duration:**

Two days (16 hours)

**Contact Us:**

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## Objectives

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This training will enable you to rapidly analyze, transform and present data. Discover how you can connect multiple data sources and create dynamic reports in no-time.

## Who is It For?

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This training is designed for analysts who work predominantly with business data and want to go beyond the capabilities of Excel. Prior knowledge of basic Excel functionalities is beneficial.

## About us

The transformation of data into meaningful information is crucial for making the right business decisions. We help you to manage the ever widening stream of data in the most time-efficient ways. With trainings that are adjusted to your industry and function, you will quickly become an expert in organizing, analyzing, and visualizing data to gain more insights. In a nutshell - our trainings enable you to do more work in significantly less time and with better results.

# Training Topics

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## Data Modeling

Self-service business intelligence is revolutionizing the world of data analysis in which Power BI plays a key role. You will be introduced to Power BI, its main advantages and analytical applications. Data forms the cornerstone of working with Power BI. With data models you will gain a better understanding of managing your data by connecting to different external data sources and creating relationships between tables.

### Example Questions

*How can I create relationships between various sources of data?*

*What data formats are supported by Power BI?*

*How to create primary data keys?*

### Focus points

#### Benefits of Power BI

Understanding normalization and denormalization.

#### Loading data from various sources

Exploring data loading options in Power BI.

#### Relationships in depth

Linking multiple data sources. Creating custom data keys. Two-way and one-way relationships.

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## DAX Fundamentals

DAX is the formula language in the Power BI environment. Formulas created in DAX are subjected to a six-step evaluation context when applied to Pivot Tables.

### Example Questions

*How are DAX formulas calculated?*

*What is the difference between implicit and explicit measures?*

*What are filter and calculation engines?*

### Focus points

#### Learning DAX basics

Creating measures with aggregation and iterator functions.

## Data table functions

Exploring functions such as DISTINCTCOUNT(), COUNTROWS(), COUNTBLANKS()

## Understanding context interactions

Changing the behavior of formulas through filter- and row contexts.

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## Power BI Visualizations

Explore and present your data graphically with Power BI visualizations. Create powerful reports and dashboards.

### Example Questions

*How to build a report with Power BI?*

*What new features does Power BI provide me with that normal Excel doesn't have?*

*How can I create reports with a drill-down functionality?*

### Focus points

#### Power BI visualizations

Creating a Power BI report and exploring its possibilities.

#### Understanding table and charts in Power View

Incorporating different graphical visualizations into analytical Power View reports.

#### Using matrices, cards, maps, and tiles

Building interactive reports and displaying data on maps.

#### Report filtering

Exploring page and report level filters. Dynamic filtering with visualizations.

#### Publishing your work

Upload your reports to the cloud service and share it with your colleagues.

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## Power BI Queries

Import, clean, and transform your data with the Power BI query explorer.

## Example Questions

*How to build a report with Power BI?*

*What new features does Power BI provide me with that normal Excel doesn't have?*

*How can I create reports with a drill-down functionality?*

## Focus points

### Creating queries and common operations

Create queries from various sources, managing rows and columns, filtering and sorting.

### Transforming data

Column transformations, dataset unpivot, fill down tool.

### Working with multiple queries

Explore merging, appending and duplicating queries.

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## Advanced DAX Calculations

The concepts of evaluation contexts, the CALCULATE function, and hierarchies enable you to enrich the data model. You will create more complex reports and improve your understanding of the DAX language. Tackle a wide range of real-world business scenarios with advanced DAX calculations. You will explore which problem sets can be best addressed with Power BI learn to use DAX as a query language.

## Example Questions

*How can I alter the initial filter context?*

*What date calculations can I perform in DAX?*

*How can I analyze my data with banding, ranking, and queries?*

## Focus points

### Using the calculate function

Applying the CALCULATE function in combination with complex filtering conditions.

### Performing date calculations in DAX

Building a calendar table and comparisons over time.

### DAX query functions

Deepen understanding of how Power BI works and utilize this for more complex analyses that incorporate queries.

# Why Choose Our Trainings?



## Business Focus

You will learn practical skills and methods that can be applied straight away. Exercises and cases are based on common business challenges while content is continuously validated by working professionals from different industries.



## Expert Knowledge

Our trainers are experts in the field of data analysis and automation with Excel. They have helped many companies build cost effective solutions with Excel and incorporate this experience in our trainings.



## Continuing Support

To ensure that you can apply what you have learned during our trainings, our team stands ready to give you a timely response to any questions you may still have.



## Flexible

We take greatest care that the training content as well as the facilities satisfy your training requirements.



## International

We operate internationally and the training content as well as delivery method are very well suited to professionals working in multinational organizations.