



Digital Transformation and Innovation

Data analysis and business intelligence

Course Introduction

You want to analyze data from single or multiple sources? You want to create your individual datasets based on these sources and transform your results into beautiful and easy-to-make visualizations? You also want to share your results with colleagues or collaborate on your projects? Finally, you want to be able to access your data from multiple devices?

Then the Power BI and Tableau tools are the tools to choose for you!

In this Training program, Participants will understand why Power BI and Tableau 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.

Target Audience

This training course is designed and beneficial for professionals seeking to analyze and work effectively with data to make effective decisions.

Learning Objectives

- 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 (= Power BI Pro) to create dashboards and to share and publish your results.
- How to access your results from multiple devices using Power BI Mobile.
- How to create custom visuals using typescript and the Power BI Developer Tools.
- Master analyzing data using Tableau.
- Understand the types of data trends, patterns and correlations.
- Understand how to use Tableau in building alerts.
- Assess the quality of the data.
- Understand and apply Tableau's Data Analysis Techniques.
- Identify How to analyze data from different sources.
- Understand Tableau's data prep capabilities.

Course Outline

- Day 01

Introduction to Power BI

- What is PowerBI?
- How can it be used to analyze financial data?
- First Project 1/3: Installing Power BI Desktop & Source File Connection.
- First Project 2/3: Working in the Query Editor.
- First Project 3/3: The Data View & Creating our First Visuals.
- Exploring the Interface of the Data Model.
- Understanding the Power BI Desktop Workflow.
- Understanding the Query Editor Interface.
- Important! Creating the Project File & Recommended Settings.
- Connecting Power BI Desktop to Source Files.
- Keeping & Removing Rows.
- Working with Filters.

- Removing Empty Rows.
- Appending Queries.
- Working with Columns.
- Formatting Data & Handling Formatting Errors.
- Pivoting & Unpivoting Data.
- Splitting Columns.
- Creating Groups & Cleaning Up our Project.
- Creating a Group.

• Day 02

Understanding Relationships

- Cardinality: Many-to-One & One-to-One.
- Cross Filter Direction & Many-to-Many.
- Understanding Active Properties.
- Understanding the DAX Basics and how to use the DAX Syntax.
- Supported DAX Data Types.
- Understanding "Data Category".
- Understanding the CALENDAR Function.
- Understanding IF & RELATED.
- Calculated Columns vs Measures.
- Understanding Basic Visual Concepts.
- Getting Started with Visuals & Reports.

- Understanding Tooltips & Interactions.
- Diving Intro Hierarchies & Drill Mode.
- Data Colors & Conditional Formatting.
- Formatting Report Pages.
- Formatting Visuals.

• Day 03

Analyzing data using Tableau

- Exploring Tableau.
- What are the types of data trends, patterns and correlations?
- How to use Tableau in building alerts?
- How to use Tableau in building dashboards and interactive visuals?
- Assess the quality of the data.
- Tableau's Data Analysis Techniques: cleaning, aggregation, pivot tables, descriptive statistics, and exploratory analysis.

• Day 04

Continue: Analyzing data using Tableau

- How to analyze data from different sources?

- ° Understanding Tableau's data prep capabilities.
- ° Using Tableau for data wrangling, blending and reshaping.
- ° Combine and present your data in the best way.

• Day 05

Working with Report Themes

- ° Using the Slicer.
- ° Understanding Default Summarization & Sorting.
- ° Working with Treemaps & Tables.
- ° Understanding Filter Types (Visual, Page & Report).
- ° Creating Combined Visuals & Waterfalls.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 18, 2025	5 days	4250.00 \$	UAE - Dubai
Sept. 22, 2025	Sept. 26, 2025	5 days	4950.00 \$	Thailand - Bangkok
Oct. 26, 2025	Oct. 30, 2025	5 days	2150.00 \$	Virtual - Online

FROM	TO	DURATION	FEES	LOCATION
Dec. 22, 2025	Dec. 26, 2025	5 days	4250.00 \$	UAE - Abu Dhabi