

Course TTDPB01:

Introduction to Using PowerBI / QuickStart (3 Days)

About this Course

QuickStart to Power BI for Analysts and Users is a two-day introductory-level course that provides attendees with a high-level view of the features and benefits of Power BI, as well as a targeted hands-on jump start to performing data analysis with Power BI.

Audience Profile

This hands-on course is geared new users and analysts or individuals who might be responsible for accessing the organization's data, transforming that data and generating reports.

At Course Completion

This course combines expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Our engaging instructors and mentors are highly experienced practitioners who bring years of current "on-the-job" experience into every classroom. Working in a hands-on learning environment led by our expert facilitator, students will learn how to:

- Perform Power BI desktop data transformation.
- Describe Power BI desktop modelling.
- Create a Power BI desktop visualization.
- Implement the Power BI service.
- Describe how to connect to Excel data.
- Shape and Combine Data
- Describe how to collaborate with Power BI data.
- Connect directly to data stores.
- Time Permitting: Explore the Power BI developer API.
- Time Permitting: Describe the Power BI mobile app

Outline

Module 1: Introduction to Self-Service BI Solutions

Introduces business intelligence (BI) and how to self-serve with BI.

Topics

- Introduction to business intelligence
- Introduction to data analysis
- Introduction to data visualization
- Overview of self-service BI
- Considerations for self-service BI
- Microsoft tools for self-service BI
- Hands-on: Exploring an Enterprise BI solution
- Viewing reports
- Creating a Power BI report
- Creating a Power BI dashboard

Module 2: Introducing Power BI

This module introduces Power BI desktop, and explores the features that enable the rapid creation and publication of sophisticated data visualizations.

Topics

- Power BI
- The Power BI service
- Hands-on: Creating a Power BI dashboard
- Connecting to Power BI data
- Create a Power BI dashboard

Module 3: Power BI

At the end of this module students will be able to explain the rationale and advantages of using Power BI.

Topics

- Using Excel as a data source for Power BI
- The Power BI data model
- Using databases as a data source for Power BI
- The Power BI service
- Hands-on: Importing data into Power BI
- Importing Excel files into Power BI
- Viewing reports from Excel files

Module 4: Shaping and Combining Data

With Power BI desktop you can shape and combine data with powerful, built-in tools. This module introduces the tools that are available for preparing your data and transforming it into a form ready for reporting.

Topics

- Power BI desktop queries
- Shaping data
- Combining data
- Hands-on: Shaping and combining data
- Shape power BI data
- Combine Power BI data

Module 5: Modelling data

This module describes how to shape and enhance data.

Topics

- Relationships
- DAX queries
- Calculations and measures
- What is DAX (Overview)
- What is DAX (Tabular)

- Creating Calculated Columns (Basics)
- Conditional and Logical Functions
- Creating Calculated Measures
- Time Intelligence (Overview)
- Time Intelligence (Time Intelligence Functions)
- Using X-Functions and A-Functions
- DAX as a Query Language
- Hands-on: Let's Model Data

Module 6: Interactive Data Visualizations

This module describes how to create and manage interactive data visualizations.

Topics

- Creating Power BI Reports
- Page Layout and Formatting
- Working with Multiple Visualizations
- Creating Charts
- Histograms
- Managing a Power BI Solution
- Power BI Service Settings
- Power BI Desktop Settings

Module 7: Direct Connectivity

- Cloud Data
- Connecting to Big Data
- Connecting to Analysis Services
- Direct Connectivity to Analysis Services
- Using the On-Premises Gateway
- SSAS Multidimensional Models

Bonus Topics / Time Permitting

This content will be included with your course materials, and will be addressed in class if time permits.

Module 8: The Developer API

- The Developer API
- The Interactive API Console
- Custom Visuals
- Using Custom Visuals
- Using the Developer API

Module 9: PowerBI Mobile

- Power BI Mobile Apps
- Creating Dashboards for Mobile Devices
- Power BI for iOS and Android
- Power BI for Windows 10
- Using the Power BI Mobile App
- Annotating Dashboards
- Power BI Embedded
- Adding Visualizations to an App

Power BI Community

Prerequisites

Before attending this course, students should have:

- A general knowledge of database concepts (fields, records, relationships)
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with Excel.