



Microsoft® Power BI Data Analysis Practitioner

Course Description: The creation of data-backed visualizations is a key way data scientists, or any professional, can explore, analyze, and report insights and trends from data. Microsoft® Power BI® software is designed for this purpose. Power BI was built to connect to a wide range of data sources and allows users to quickly create visualizations of connected data to gain insights, show trends, and create reports. Power BI's data connection capabilities and visualization features go far beyond those that can be found in spreadsheets, allowing users to create compelling and interactive worksheets, dashboards, and stories that bring data to life and turn data into thoughtful action.

Duration: Instructor-led, group-paced, classroom-delivery learning model with structured hands on activities – 14 hours (2 day)

Course Objectives: Make use of the Power BI to visualize data

- Analyze data with self-service BI.
- Connect to data sources.
- Perform advanced data modeling and shaping.
- Visualize data with Power BI.
- Enhance data analysis.
- Model data with calculations.
- Create interactive visualizations.

Prerequisite: To ensure your success, you should have experience managing data with Microsoft Excel. An understanding of database design concepts and basic programming constructs such as looping and branching, will help you get even more out of this course.

Course Outline

Analyzing Data with Self-Service BI

- Data Analysis and Visualization for Business Intelligence
- Self-Service BI with Microsoft Power BI

Connecting to Data

- Create Data Connections
- Model Data with Relationships
- Save Power BI Files

Performing Advanced Data Modeling and Shaping

- Clean and Transform Data with the Query Editor
- Shape Data with the Query Editor
- Combine and Manage Data Rows

Visualizing Data with Power BI

- Create Visualizations in Power BI
- Chart Data in Power BI

Enhancing Data Analysis

- Enhance Analysis with Customized Visuals and Pages
- Enhance Analysis with Tooltips

Modeling Data with Calculations

- Create Calculations with Data Analysis Expressions (DAX)
- Create Calculated Measures and Conditional Columns

Creating Interactive Visualizations

- Create and Manage Data Hierarchies
- Filter and Slice Reports
- Create Dashboards in Power BI