

Power BI Data Analysis

Power BI is in Microsoft's suite of Power Platform products that allows users to analyze their data and gain foresight that can help them make sound, well informed decisions for their organization. This usually involves software that specializes in the analysis of historical and current data and make possible forecasts.

Getting insights from your internal data then analyzed with external industry data or competitor's data can provide much more powerful data analysis that can help validate current assumptions or opportunities that the current business environment provides. We live in a time where we are inundated with data, however without proper data analysis on that data, it all becomes useless.

Power BI requires that the student have a strong background in Excel functions, formulas, filters, and Pivot Tables. Having used the Power Query Add-On for Excel would also be beneficial but not required. Having problem solving skills and the ability to do complex calculations will be required as well as this course requires being able to analyze large amounts of data.

***** You must have Power BI Desktop installed before taking this course.***

Course Outline:

1. Data Analysis with Power BI

- Defining BI / Data Analysis / Visualization
- Power BI Desktop
- Excel vs Power BI
- Power BI Interface

2. Connecting to your Data

- Navigator Window
- Importing vs Live Connection
- Relationship Types
- Cross Filter Direction

3. Transforming Your Data

- Data View to Transform
- Power Query Editor
- Close & Apply vs Saving
- Combining Queries
- Adv Editor & M Language

4. Data Modeling with DAX

- What is DAX
- Formula Bar
- DAX Error Checking
- Calculated Columns vs Measures
- Table Unions

5. Visualizations for your Reports

- Visualizations, Filters & Fields Pane
- Types of Visuals
- Microsoft Marketplace
- Enhancing Your Reports / Dashboards

6. Interactive Visualizations

- Hierarchies
- Filters & Slicers
- Drill Through Filters

7. Publishing to the Power BI Web App

- Using Workspaces
- Power BI Mobile App