

**Course Title: Data Analysis with Power BI.**

**Duration : 2 days**

This program is design those who are using Excel and Office 365 or SQL or those wants to create a Report using Power BI and publish their reports on Web. In this training course, you will learn Power BI from beginner to advance. You will learn how to use Power BI for simple data analysis situations as well as complex business intelligence scenarios. You will learn about Power BI Desktop, Power BI Website, and components of Power BI which are; Get and Transform (or Power Query), Modeling (or Power Pivot), and Visualization. You will also learn about Power Query Formula Language (Called M informally), and DAX. This course designed to give you an end to end view of Power BI, so you be able to use Power BI straight away in your everyday challenges for data analysis.

### Program Objectives

This training program will empower the participants to be able to do the following:

- Perform Power BI desktop data transformation
- Describe Power BI desktop modelling
- Create a Power BI desktop visualization
- Describe how to connect to Excel data
- Describe how to collaborate with Power BI data
- Create and share dashboards based on reports in Power BI desktop and Excel
- Use natural language queries
- Create real-time dashboards
- Connect directly to data stores
- Implement the Power BI service
- Describe the Power BI developer API
- Describe the Power BI mobile app

### Audience

The primary audience for this course is BI professionals who need to analyze data utilizing Power BI. Executives and managers who have already very good knowledge of Microsoft Excel or QL Server report creators who are interested in alternative methods of presenting data.

### Prerequisites

- Familiarity with Microsoft Office applications – particularly Excel or SQL

## Day-wise Break-up

Day	Module	Topic
Day 1	Module 1	Introduction to self-service bi solutions
	Module 2	Power BI data
	Module 3	Shaping & combining data
	Module 4	Modelling data
	Module 5	Interactive data visualizations
Day 2	Module 6	Creating Dashboard
	Module 7	Sharing your Work
	Module 8	Overview of Power BI mobile app
	Module 9	Working with Excel PowerPivot

## Course Outline

### Module 1: Introduction to Self-Service Bi Solutions

- Introduction to business intelligence
- Introduction to data analysis
- Introduction to data visualization
- Overview of self-service BI
- Considerations of self-service BI
- Microsoft tools for self-service BI
- Power BI mobile apps

### Module 2: Power BI Data

- Using Excel as a Power BI data source
- Using databases as a Power BI data source
- Import data from CSV files
- Import data from a less structured file

### Module 3: Shaping & Combining Data

- Power BI desktop queries
- Shaping data [Split/Merge/Extract/Format
- Merge, joining queries
- Append, creating a big list
- Combine Binaries; Looping through files in a folder

#### Module 4: Modelling Data

- Pivot, Unpivot
- Relationships
- DAX queries [Data Analytical eXpression language]
- Calculations and measures [Logical / Time
- Hierarchies
- Optimizing data models

#### Module 5: Power BI Desktop Visualization

- Cross-tabular reports
- Part-to-Whole reports
- Relationship reports
- Trend reports
- Rank reports
- Different Bulletin-Chart
- Slicing and Dicing
- Drill Down/Up

#### Module 6: Creating Dashboard

- Built-in Charts and Graphs in Power BI
- Sorting, Filtering, and categorization with Power View
- KPIs
- Refreshing data

#### Module 7: Sharing your Work

- Publish from Power BI Desktop
- Dashboards in Power BI
- Share a dashboard from Power BI

#### Module 8: Power BI mobile app

- The Power BI mobile app
- Using the Power BI mobile app
- Power BI embedded
- Debugging code

#### Module9: Working with Excel PowerPivot

- Working with Excel Dashboard using Power Pivot Table and Report
- Working with PowerPivot