



# Microsoft Power BI

## **Power BI Syllabus (basic to adv) – Course Syllabus**

### ***Power BI Course Content***

#### **Module 1 - Introduction to Power BI**

- 1.1 Introduction to Microsoft Power BI
- 1.2 The key features of Power BI workflow
- 1.3 Desktop application
- 1.4 BI service
- 1.5 File data sources
- 1.6 Sourcing data from web (OData, Azure)
- 1.7 Building dashboard
- 1.8 Data visualization
- 1.9 Publishing to cloud
- 1.10 DAX data computation

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- 1.11 Row context
- 1.12 Filter context
- 1.13 Analytics Pane
- 1.14 Creating columns and measures
- 1.15 Data drill down and drill up
- 1.16 Creating tables
- 1.17 Binned tables
- 1.18 Data modeling and relationships
- 1.19 The Power BI components like Power View, Map, Query, Pivot
- 1.20 Power Q & A
- 1.21 Understanding advanced visualization

## Hands-on Exercise –

1. Demo of building a Power BI dashboard
2. Source data from web
3. Publish to cloud
4. Create power tables

## Module 2 - Extracting Data

- 2.1 Learning about Power Query for self-service ETL functionalities
- 2.2 Introduction to data mashup
- 2.3 Working with Excel data
- 2.4 Learning about Power BI Personal Gateway
- 2.5 Extracting data from files, folders and databases
- 2.6 Working with Azure SQL database and database source
- 2.7 Connecting to Analysis Services
- 2.8 SaaS functionalities of Power BI

## Hands-on Exercise –

1. Connect to a database
2. Import data from an excel file
3. Connect to SQL Server
4. Analysis Service
5. Connect to Power Query
6. Connect to SQL Azure
7. Connect to Hadoop

## Module 3 - Power Query for Data Transformation

## Module 4 - Power Pivot for Data Modeling and Data Analysis Expression - DAX Queries

## Module 5 - Data Visualization with Analytics

## Module 6 - Power Q & A

## Module 7 - Power BI Desktop & Administration

## Module 8 - Microsoft Course

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