

# Power BI Unlocked: Building a Semantic Model

**Duration – 16 hours**

## Overview

This two-day intensive course is designed for professionals who has hands on experience with Power BI and are looking to get a deeper understanding for connecting cleaning and visualization of data for report & dashboard building through discussion, demo and hands on lab exercises.

## Audience Profile

This course is designed for individuals seeking to build on their existing knowledge for Power BI. An understanding of data concepts and familiarity with Power BI DAX and Data modelling techniques would be beneficial. If you are interested in learning how to build effective and impactful reports and dashboard with Power BI, this course is ideal for you.

## Course Syllabus,

- **Module 1 – Basics of Power BI**
  - Introduction to Power BI
  - Components of Power BI
  - Features and Capabilities of Power BI
  - Introduction to Data lifecycle
  
- **Module 2 – ETL with Power Query Editor**
  - Using Power Query Editor to Ingest data
  - Choosing the right data storage mode
  - Brining Data from multiple sources
  - Merging and Appending Queries
  - Advance Data Transformations
  - Using Advance Query Editor
  - The concept of parameters

- **Module 3 – Model Data & DAX**

- Common data modelling techniques
- Establishing relationships in data
- Creating hierarchy
- Introduction to DAX
- Creating Calculated Tables and Calculated Columns
- Creating Measures
- Using Time Intelligence DAX
- Using Variables for Complex calculations
- Using Performance analyser to improve Model performance
- Creating visual calculations

- **Module 4 – Visualize Data**

- Report creation
- Report design philosophies
- Adding Text and Image elements to report pages
- Selecting and using appropriate visuals
- Components of the visualization pane
- Importing visuals through Power BI Visualization Store
- Using AI Based Visuals
- Creating Mobile view for the reports
- Customizing report themes

- **Module 5 – Analyse Data**

- Using filters and slicers
- Conditional Formatting to enhance visuals
- Drill through & drill down for deeper data insights
- Using visuals for forecasting
- Implementation of text and page tool tips
- Setting up bookmarks and buttons

- **Module 6 – Create a Dashboard**

- Publishing Report to Power BI Workspace
- Workspaces v/s apps
- Roles within a workspace
- Create Dashboard using multiple reports
- Pining Individual visuals from a report vs Using Live Pins
- Formatting dashboard and setting up mobile view for dashboard

- **Module 7– Managing Semantic Model**

- Creating Report and Dashboard subscriptions
- Applying sensitivity labels for Semantic Model
- Setting up data refresh using cloud and on prem connections
- Implementation of Row Level Security