

Power BI Advanced: Mastering Data Analysis and Visualization

Duration – 16 hours

Overview

This two-day intensive course is designed for professionals who have a basic understanding of Power BI and are looking to deepen their skills in advanced report creation, data modelling, and visualization. Participants will learn how to master data connections, enhance data analysis techniques, and design impactful visual dashboards. By the end of the course, attendees will be able to build and optimize data models, apply time-based analysis for deeper insights, and create advanced reports using Power BI Desktop.

Audience Profile

This course is for professionals with a basic understanding of Power BI and data analysis concepts. If you've used Excel or other data tools and want to improve your skills in visualization and reporting, this course will help. It's ideal for business analysts, data professionals, or anyone looking to create clear, insightful reports and dashboards. With practical examples and hands-on learning, you'll gain the confidence to work with data more effectively and take your Power BI skills to the next level.

Course Syllabus,

- **Module 1 – Mastering Data Connections and Data Preparation**

- Data sources and data connectivity modes
- Data transformation using Power Query Editor
- Data cleaning and preparation techniques
- Merging and Appending queries
- Data types

- **Module 2 – Building and Optimizing Data Models**

- Designing effective data models
- Relationships in data modelling
- Creating and managing data hierarchies
- Creating DAX measures
- Creating calculated columns and calculated tables using DAX

- **Module 3 – Advanced Report Creation Using Power BI Desktop**
 - Data visualization techniques
 - Creating and using complex visuals
 - Usage of filters, drill downs and slicers
 - Creating visual calculations
 - Best practices for report design and layouts
 - Publishing reports to Power BI Service

- **Module 4 – Getting deeper insights**
 - Introduction to times-based analysis
 - Creating time intelligence calculations
 - Using AI visuals in Power BI Desktop

- **Module 5 – Designing Visual Dashboards**
 - Effective dashboard design
 - Customizing visuals for clarity and impact
 - Best practices for maintaining and updating dashboards
 - Workspaces and apps in Power BI Service