

Power BI Course Structure

Duration – 40 Hours (6 Weeks)



Module 1: Introduction to Power BI & Business Intelligence (4 Hours)

- Concepts: What is Business Intelligence (BI)? Data Analytics Lifecycle.
- Power BI Ecosystem: Desktop, Service, Mobile, and Report Server.
- Installation & Interface: Power BI Desktop tour, GUI options, and settings.
- Workflow: Data sourcing, transformation, modeling, and publishing.

Module 2: Data Transformation with Power Query (8 Hours)

- Data Connectors: Connecting to Excel, CSV, SQL databases, Web APIs, and Folders.
- Query Editor: Cleaning, shaping, and transforming data.
- Transformations: Splitting columns, changing data types, replacing values, merging, and appending queries.
- Advanced Editor: Working with M Code, custom column creation, and error handling.
- Structuring: Pivoting, Unpivoting, and grouping data.

Module 3: Data Modeling & Relationships (6 Hours)

- Modeling Concepts: Star Schema vs. Snowflake Schema.
- Relationships: Managing relationships, cardinality (one-to-one, one-to-many), and cross-filter direction.
- Data Prep: Creating calculated columns and hierarchies.
- Best Practices: Star schema optimization and performance tuning.

Module 4: Data Analysis Expressions (DAX) (8 Hours)

- Introduction: DAX syntax, calculated columns vs. measures.
- Functions: Aggregation (SUM, AVG), logical (IF, SWITCH), text, and date functions.
- Context: Row context vs. Filter context.
- Advanced DAX: CALCULATE function, ALL/FILTER functions.
- Time Intelligence: Year-to-date (YTD), Quarter-to-date (QTD), Month-to-date (MTD), and SamePeriodLastYear.

Module 5: Data Visualization & Reporting (6 Hours)

- Report View: Creating and formatting charts, tables, and matrices.
- Visual Types: Bar/column charts, line charts, pie charts, maps, and KPI cards.
- Interactivity: Slicers, bookmarks, drill-through, and tooltips.
- Formatting: Conditional formatting, themes, and layouts.

Module 6: Power BI Service & Collaboration (4 Hours)

- Sharing: Publishing reports, managing workspaces, and sharing dashboards.
- Dashboards: Creating, sharing, and setting alerts in Power BI Service.
- Security: Implementing Row-Level Security (RLS).
- Refresh: Scheduling data refreshes and using gateways.

Module 7: Real-time Projects & Capstone (10 Hours)

- End-to-End Projects: Creating a complete dashboard (e.g., Sales, Finance, HR) using raw data.
- Portfolio Building: Saving and presenting projects to showcase skills.





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