



POWER BI COURSE

Prepared By (CTO) SYNTHOQUEST

45 Days Duration

Duration: 45 days × 2 hrs/day = 90 hrs

Goal: Equip learners with practical skills to create interactive dashboards, reports, and business intelligence solutions using Power BI.

Core Domains

1. Introduction to Power BI (5%)

- Overview of BI, analytics, and Power BI
- Components: Power BI Desktop, Service, Mobile
- Power BI architecture and workflow

2. Data Sources & Data Loading (10%)

- Connecting to Excel, CSV, SQL, Azure, and web data sources
- Data import, refresh, and query editor basics
- Data types, tables, and relationships

3. Data Transformation & Modeling (15%)

- Power Query: clean, transform, merge, and append data
- Data modeling: relationships, hierarchies, calculated columns
- DAX basics: calculated fields, measures, aggregation functions

4. Data Visualization (20%)

- Visual types: bar, column, line, pie, area, matrix, table, map
- Slicers, filters, bookmarks, drill-through
- Conditional formatting and custom visuals

5. Advanced DAX (15%)

- DAX functions: time intelligence, filtering, logical functions
- Measures vs calculated columns
- Aggregations, KPIs, and dynamic calculations

6. Power BI Service & Collaboration (10%)

- Publishing reports to Power BI Service
- Workspaces, dashboards, and apps
- Sharing, commenting, and collaboration

7. Power BI Embedded & Automation (5%)

- Power BI Embedded overview
- Integrating Power BI reports into applications
- Data alerts, subscriptions, and scheduled refresh

8. Power BI Security & Governance (10%)

- Row-Level Security (RLS)
- Data protection, roles, and access management
- Governance and best practices

9. Project & Best Practices (10%)

- End-to-end Power BI project: data source → model → report → dashboard
- Documentation, storytelling, and presentation
- Optimization and performance tuning

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