Excel with BI - Fast-Track Training Curriculum

Total Duration: 20 Hours

Delivery Mode: Fast-track | High-intensity | Hands-on

Approach: Concept → Demo → Guided Practice → Integrated Use Case

Program Design Logic (for Client Assurance)

- No topic removed all original content retained
- Reduced repetition across Excel & Power BI
- Focus on business use cases instead of feature-by-feature teaching
- Single end-to-end dataset used throughout the program
- Capstone embedded across sessions (not treated as a separate day)

Fast-Track Structure (20 Hours Total)

Session 1 (4 Hours)

Advanced Excel - Data Analysis & Productivity

Coverage:

- Advanced Excel interface, productivity tools & best practices
- Advanced formulas and functions:
 - Logical: IF, IFS, SWITCH
 - Lookup: XLOOKUP, INDEX-MATCH
 - o Dynamic arrays: FILTER, SORT, UNIQUE
- Text, date & financial functions
- Error handling & formula auditing
- Efficient techniques for large datasets

Methodology:

- Function clustering
- Side-by-side formula comparisons
- Business case-based exercises

Outcome:

Participants build optimized, scalable Excel models quickly.

Session 2 (4 Hours)

Advanced Excel - Automation, Modeling & Dashboards

Coverage:

- Data validation using formulas & custom rules
- Advanced Pivot Tables & Pivot Charts:
 - Calculated fields & measures
 - o Slicers & timelines
- Power Query in Excel:
 - o Importing, cleaning, transforming data
 - o Merge & append queries
- What-If analysis:
 - o Goal Seek
 - o Scenario Manager
 - o Data Tables
- Dashboard design principles
- Introduction to Excel automation:
 - o Macro recording overview

Methodology:

- One dashboard built live end-to-end
- Guided lab on pivot-driven dashboards

Outcome:

Participants automate reports and build interactive Excel dashboards.

Session 3 (4 Hours)

Power BI - Data Preparation & Modeling

Coverage:

- Power BI ecosystem:
 - o Desktop, Service & Mobile
- Connecting to data sources:
 - o Excel, CSV, databases
- Power Query Editor:

- o Data transformation & cleansing
- Data modeling:
 - o Relationships & cardinality
 - o Star schema best practices
- Introduction to DAX:
 - o Calculated columns vs measures
 - Core DAX functions

Methodology:

- Same Excel dataset reused
- Model-first BI approach

Outcome:

Participants design clean, scalable Power BI data models.

Session 4 (4 Hours)

Power BI - Advanced Analytics & Visualization

Coverage:

- Advanced DAX:
 - o CALCULATE, FILTER, ALL, RELATED
 - o Time intelligence functions
- Advanced visuals:
 - o Custom visuals
 - o Formatting best practices
- Interactivity:
 - o Slicers, filters
 - o Drill-down & drill-through
 - o Tooltips
- Dashboard design principles
- Performance optimization techniques

Methodology:

- Measure-driven visuals
- Optimization tips embedded during build

Outcome:

Participants create high-performance, interactive BI dashboards.

Session 5 (4 Hours)

Power BI - Deployment, Automation & Business Insights

Coverage:

- Publishing to Power BI Service
- Data refresh & gateway concepts
- Row-level security (RLS)
- Integrating Power BI with Excel & other tools
- Data storytelling best practices

Capstone Project (Integrated):

- End-to-end solution:
 - o Excel data → Power Query → Data Model → DAX → Power BI Dashboard

Wrap-Up:

- Review of best practices
- BI roadmap & next steps

Outcome:

Participants deploy secure BI solutions and communicate insights effectively.