<u>Masterclass after Dashboard in a Day</u>

Duration: 16 hours

Course Description

This course is designed for professionals looking to deepen their expertise in Power BI by mastering advanced data modelling, DAX functions, and data visualization techniques. Over two intensive days, learners will explore complex Power BI features, including data preparation, transformation, custom visuals, and interactive dashboards. By the end of the course, participants will be able to create compelling reports and dashboards, implement advanced calculations, and optimize data models for performance.

Audience Prerequisites

- Completed Dashboard in a Day course or equivalent knowledge of Power BI
- Familiarity with basic data modelling concepts
- Fundamental Experience with data visualization and reporting

Course Content

Module 1: Introduction to DAX

- What is DAX?
- Why use DAX in Power BI?
- Basic DAX syntax and operators

Module 2: DAX Functions

- Aggregation and filtering functions
- Time intelligence functions
- Logical and mathematical functions

Module 3: DAX Calculated Columns and Measures

- Differences between calculated columns and measures
- Creating custom calculations with DAX
- Performance optimization techniques for DAX

Module 4: Data Modeling Best Practices

- Star vs. Snowflake schema

- Managing relationships in Power BI
- Handling many-to-many relationships
- Using calculated tables

Module 5: Intermediate Data Modeling Techniques

- Role-playing dimensions
- Dynamic relationships
- Optimizing models for performance

Module 6: Data Preparation & Transformation

- Data extraction using GetData
- Cleaning and transforming data with Power Query
- Handling missing values and inconsistencies

Module 7: Advanced Power Query Techniques

- Combining multiple data sources
- Creating custom columns and transformations
- Parameterizing queries for dynamic reports

Module 8: Interactive Dashboards & Custom Visuals

- Designing visually compelling reports
- Creating dynamic slicers and filters
- Implementing drillthrough and cross-filtering
- Using custom visuals for enhanced storytelling

Module 9: Data Storytelling in Power BI

- Effective visualization techniques
- Using Smart Narratives for automated insights
- Creating reports with business impact

Module 10: AI-powered Features in Power BI

- Key Influencers visual
- Decomposition Tree for root cause analysis
- Anomaly detection & forecasting
- Natural language processing with Q&A visual