



POWER BI ADVANCED VISUALIZATION AND AI

Course ID : POWER-BI-ADV



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Duration: 2 Days

(12 Hours) 09:00 AM – 04:00 PM



Price: 8,900 THB

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Power Platform, Business, Data

This course is designed to enhance participants' expertise in developing advanced reports and interactive dashboards using the powerful visualization capabilities of Microsoft Power BI, while integrating AI technologies to enrich data analysis. Participants will learn how to deliver impactful and modern data presentations, leveraging their foundational knowledge of Power BI Desktop to create business-focused reports that drive insights across the modern enterprise.

Objectives

1. Equip participants with the skills to create advanced and interactive visualizations in Power BI.
2. Enable participants to leverage AI powered features in Power BI for data analysis and forecasting (e.g., Forecasting, Anomaly Detection).
3. Guide participants in designing dynamic dashboards aligned with specific business requirements.

Objectives

4. Demonstrate how to integrate Power BI with Power Apps and Power Automate to streamline workflow automation.

Target Audience

1. Chief Data Officers (CDOs)
2. Business Analysts
3. Data Analysts
4. Directors and Managers
5. Individuals seeking to advance their Power BI skills

Prerequisites

1. Proficiency in using Windows operating systems and the internet
2. Experience working with Power BI Desktop or completion of the “Power BI Desktop for Business Analytics” course
3. Strong proficiency in using PivotTables and creating data visualizations in Microsoft Excel

System Requirements

1. Windows 10 or Windows 11
2. Microsoft Power BI Desktop (available as a free download)
3. A smart device (iOS or Android) for installing the Power BI Mobile app

TRAINING TOPICS

 DAY 1 Morning Session

9:00 AM – 12:00 PM

1. Fundamentals of Data Visualization

- Overview of Power BI and the Power Platform ecosystem
- Core principles of effective data presentation and visualization design
- Applying the “10-second rule” for impactful dashboard layouts
- Introduction to sample datasets used throughout the course

2. Engaging Visualizations and Practical Applications

- Customizing and refining visualizations to deliver compelling insights
- Key visuals: Card, Table, Multi-row Card, KPI, Column Chart, Bar Chart, Stacked Column/Bar Chart, Line Chart, Ribbon Chart, Waterfall Chart, Scatter Chart (with time-series analysis), and Gauge

3. Configuring Visualizations

- Configuring essential properties and options for advanced data analysis (with case studies)
- Defining and using data hierarchies for drill up and drill down
- Categorizing and grouping data for meaningful analysis
- Displaying target lines (maximum, minimum, and average)
- Using tooltips and image data types effectively in reports
- Setting up automatic page refresh for Analysis Services and Power BI datasets
- Managing Edit Interactions for coordinated visualizations
- Workshop: Applying best practices in visualization configuration

4. Conditional Formatting

- Applying meaningful color schemes and icons to visuals
- Conditional formatting for charts and measures
- Icon sets, background color, font color customization
- Case study: Using red/yellow/green icons for products with varying return rates

5. Working with Maps

- Utilizing location data with provided map datasets (Thai and English)
- Map visuals: Map, Filled Map, ArcGIS Map
- Appropriate data categorization for mapping
- Distribution of province, district, and subdistrict names in both Thai and English
- Workshop

6. Filtering in Power BI

- Using slicers and specifying filter scope (This Visual, This Page, All Pages)
- Applying Drillthrough for flexible cross-page reporting
- Performing Top N and threshold-based filtering
- Case Studies: Identifying the Top 10 Best Sellers and Bottom 10 Worst Sellers, and linking from the Overview page to Product Details

7. Creating Bookmarks and Buttons

- Understanding the fundamentals of pages, bookmarks, and buttons
- Using bookmarks to capture report states (including filters and slicers)
- Assigning navigation actions to buttons (page, bookmark, or URL)
- Workshop: Creating interactive report navigation with bookmarks and buttons

8. Advanced Analytics

- Exploring tools for trend analysis, forecasting, and anomaly detection
- Creating trend lines, average, maximum, minimum, and percentile reference lines
- Performing target vs. actual performance comparisons
- Implementing forecasting and anomaly detection techniques
- Workshop: Applying analytics features for business insights

9. Artificial Intelligence (AI) in Power BI


- Introduction to core AI concepts and capabilities in Power BI
- Exploring AI visuals: Q&A (natural language queries), Key Influencers (identifying key drivers), and Decomposition Tree (root cause analysis)
- Workshop: Applying AI visuals for data-driven insights

10. Market Place Visualizations

- Installing, managing, and utilizing custom visuals from Microsoft AppSource

11. Integrating Power BI with Power Apps

- Overview of Power Apps for mobile and tablet application development
- Embedding Power Apps directly within Power BI reports for enhanced interactivity
- Case Study: Importing and visualizing data from Power Apps into Power BI reports

 DAY 2 Afternoon Session

1:00 PM – 4:00 PM

12. Power BI Integration with Power Automate

- Overview of Power Automate and Robotic Process Automation (RPA)
- Installing and configuring Power Automate visuals in Power BI
- Case Study: Creating a Power Automate button to automate data refresh, export data, and send email notifications from Power BI

13. Power BI Mobile Reports

- Designing and building mobile-optimized Power BI reports
- Accessing and interacting with reports through the Power BI Mobile app
- Navigating reports using scrolling, drill up/down, and drillthrough actions
- Passing parameters into Power BI reports and visualizations
- Utilizing What-If parameters for scenario analysis
- Workshop: Developing interactive mobile dashboards

14. Performance Analyzer

- Exploring tools for monitoring and analyzing report performance
- Using the Performance Analyzer to identify and troubleshoot performance bottlenecks
- Interpreting performance results and optimizing report efficiency

15. Sharing and Security

- Sharing reports and dashboards via the Power BI Service (Cloud)
- Configuring access permissions and dataset-level security
- Implementing Row-Level Security (RLS) for conditional data access
- DAX filter configuration
- Case Study: Restricting sales data visibility by country for regional sales teams



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