

DATA VISUALIZATION

ADVANCED

5 DAYS

Data Visualization and Analysis with Power BI

Build a strong foundation in data visualization and analysis with Power BI, from data connectivity and modeling to interactive dashboards. Learn how to transform data with Power Query, create DAX measures, design visuals stakeholders can use, and share governed reports for faster decisions.

Why Power BI?

Accelerated Business Intelligence Delivery

Your teams will dramatically reduce the time needed to transform raw data into actionable business insights, enabling faster strategic decision-making across your organisation.

Enhanced Cross-Departmental Collaboration

Teams will create interactive dashboards and reports that facilitate better communication of data insights, improving collaboration between business units and stakeholders.

Cost-Effective Enterprise Solution

Power BI provides comprehensive business intelligence capabilities at a fraction of traditional BI tool costs, delivering significant ROI while reducing dependency on expensive external consultants.

AI-Powered Decision Making

Your organisation will leverage Power BI's artificial intelligence capabilities for automated insights and natural language queries, significantly improving the speed and accuracy of data-driven decisions.

Standardised Data Analysis Framework

Establish consistent data visualization and reporting standards across your organisation, ensuring reliable and comparable insights from all departments and teams.

What you'll be able to do

- ✓ Familiarize participants with the Power BI ecosystem, its features, and its benefits, enabling them to navigate the interface confidently.
- ✓ Teach participants to connect to diverse data sources, import data, and perform data cleaning and transformation.
- ✓ Enable participants to design efficient data models and establish relationships between tables, ensuring accurate analysis and visualization.
- ✓ Train participants to create a wide range of interactive and visually appealing data visualization.
- ✓ Equip participants with advanced Data Analysis Expressions (DAX) skills to create complex calculations and measures for in-depth analysis.
- ✓ Guide participants in designing interactive dashboards and reports that provide actionable insights to end-users.
- ✓ Introduce participants to real-time data capabilities in Power BI, allowing them to monitor live data and make prompt decisions.
- ✓ Teach participants how to leverage Power BI's AI capabilities for natural language queries, automated insights, and data exploration.

Who this is for

- Business Analysts
- Data Analysts
- Data Scientists
- Human Resources Managers
- Supply Chain Analysts
- IT Professionals
- Anyone Interested in Data Analysis

Curriculum

01 Power BI Foundations

- Apply power bi foundations in practical visualization workflows
- Build and refine examples using realistic datasets
- Check clarity, accuracy, and stakeholder readability
- Document choices and iterate based on feedback

02 Connect and Transform with Power Query

- Apply connect and transform with power query in practical visualization workflows
- Build and refine examples using realistic datasets
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03 Data Modeling

- Apply data modeling in practical visualization workflows
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04 Visuals and Dashboards

- Apply visuals and dashboards in practical visualization workflows
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05 DAX Measures and Time Intelligence

- Apply dax measures and time intelligence in practical visualization workflows
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06 Drill-Downs and Interactivity

- Apply drill-downs and interactivity in practical visualization workflows
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07 Sharing, Security, and Governance

- Apply sharing, security, and governance in practical visualization workflows
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08 Performance Optimization

- Apply performance optimization in practical visualization workflows
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09 Excel/Azure Integration

- Apply excel/azure integration in practical visualization workflows
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10 Automation and APIs

- Apply automation and apis in practical visualization workflows
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11 AI Insights and Storytelling

- Apply ai insights and storytelling in practical visualization workflows
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12 Case Studies and Troubleshooting

- Apply case studies and troubleshooting in practical visualization workflows
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