



Power Bi Course Details

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Module 1: Introduction to Power BI

- **Overview of Power BI**
 - What is Power BI?
 - Components of Power BI
 - Power BI Service vs. Power BI Desktop vs. Power BI Mobile
- **Getting Started with Power BI**
 - Installing Power BI Desktop
 - Power BI Interface Overview
 - Basic Workflow in Power BI

Module 2: Connecting to Data Sources

- **Data Connection Basics**
 - Types of data sources supported by Power BI
 - Importing data from different sources (Excel, SQL Server, Web, etc.)
- **Data Transformation with Power Query**
 - Introduction to Power Query Editor
 - Data shaping and transformation
 - Combining multiple data sources

Module 3: Data Modeling

- **Introduction to Data Modeling**
 - What is a data model?
 - Importance of data modeling in Power BI
- **Creating Relationships**
 - Understanding relationships in Power BI
 - Creating and managing relationships between tables
- **Data Modeling Techniques**
 - Star schema vs. Snowflake schema
 - Normalization and denormalization

Module 4: DAX (Data Analysis Expressions)

- **Introduction to DAX**
 - What is DAX?
 - Basic DAX syntax and functions
- **Basic DAX Functions**

- Aggregate functions (SUM, AVERAGE, COUNT)
- Logical functions (IF, AND, OR)
- Text functions (CONCATENATE, LEFT, RIGHT)
- **Advanced DAX Functions**
 - Time intelligence functions (YTD, QTD, MTD)
 - Filter functions (FILTER, ALL, CALCULATE)
 - Table functions (SUMMARIZE, ADDCOLUMNS)

Module 5: Data Visualization

- **Introduction to Visualizations in Power BI**
 - Types of visualizations
 - Best practices for data visualization
- **Creating Basic Visuals**
 - Bar charts, Line charts, Pie charts
 - Tables and matrices
 - Cards and KPIs
- **Advanced Visualizations**
 - Slicers and filters
 - Drill-through and drill-down reports
 - Custom visuals

Module 6: Power BI Service

- **Introduction to Power BI Service**
 - Publishing reports to Power BI Service
 - Managing datasets and reports in Power BI Service
- **Workspaces and Dashboards**
 - Creating and managing workspaces
 - Building and sharing dashboards
- **Collaborating and Sharing**
 - Sharing reports and dashboards
 - Row-level security (RLS)
 - Embedding Power BI content

Module 7: Power BI Mobile

- **Introduction to Power BI Mobile**
 - Overview of Power BI Mobile app
 - Viewing and interacting with reports on mobile
- **Designing for Mobile**
 - Creating mobile-optimized reports
 - Best practices for mobile report design

Module 8: Advanced Topics in Power BI

- **Power BI and Excel Integration**
 - Using Power BI Publisher for Excel

- Importing Excel workbooks into Power BI
- **Power BI and Azure Integration**
 - Connecting to Azure services
 - Using Power BI with Azure Machine Learning
- **Performance Optimization**
 - Best practices for performance tuning
 - Optimizing DAX queries and data models

Module 9: Custom Visuals and Development

- **Using Custom Visuals**
 - Importing and using custom visuals from the marketplace
 - Creating custom visuals with R and Python
- **Power BI API and Automation**
 - Introduction to Power BI REST API
 - Automating tasks with Power BI API
- **Embedding Power BI Reports**
 - Embedding reports in web applications
 - Using Power BI Embedded service

Module 10: Governance and Administration

- **Power BI Administration**
 - Managing Power BI settings and tenant
 - User and group management
- **Data Governance**
 - Implementing data governance policies
 - Monitoring usage and performance
- **Compliance and Security**
 - Ensuring data compliance
 - Implementing security best practices

Conclusion and Final Project

- **Final Project**
 - Developing a comprehensive Power BI solution for a real-world scenario
 - Implementing learned concepts and best practices
 - Presentation and review of the final project
- **Course Review and Q&A**
 - Recap of key concepts
 - Addressing student questions and feedback
- **Certification**
 - Course completion certificate
 - Guidance on further learning paths and resources