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Power BI Training Curriculum Online by Certified Consultant

Module 1: Introduction to Power BI

- Overview of Business Intelligence (BI)
- What is Power BI?
- Components of Power BI Ecosystem
- Power BI Desktop, Service, and Mobile
- Power BI Architecture
- Installing and Configuring Power BI Desktop
- Understanding Data Analytics Workflow
- Power BI Licensing Overview

Module 2: Power BI Interface and Navigation

- Power BI Desktop Overview
- Report View
- Data View
- Model View
- Ribbon and Navigation Pane
- Query Editor Interface
- Visualization Pane
- Fields and Filters Pane

Module 3: Data Sources and Connectivity

- Connecting to Excel Files
- Connecting to CSV and Text Files
- Connecting to SQL Server
- Connecting to Oracle Database
- Connecting to MySQL and PostgreSQL
- Connecting to SharePoint
- Connecting to Web Data Sources
- Import Mode vs DirectQuery Mode
- Live Connections

Module 4: Data Transformation with Power Query



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- Introduction to Power Query Editor
- Data Cleaning Techniques
- Removing Duplicates
- Handling Null Values
- Splitting and Merging Columns
- Data Type Conversion
- Filtering and Sorting Data
- Appending Queries
- Merging Queries
- Creating Custom Columns
- Advanced Transformations
- Query Optimization

Module 5: Data Modeling

- Understanding Data Models
- Fact and Dimension Tables
- Creating Relationships
- Cardinality Concepts
- Star Schema Design
- Snowflake Schema
- Active and Inactive Relationships
- Cross Filter Direction
- Model Optimization Techniques

Module 6: DAX (Data Analysis Expressions) Fundamentals

- Introduction to DAX
- Calculated Columns
- Measures
- DAX Syntax and Functions
- Aggregate Functions
- Logical Functions
- Date and Time Functions
- Text Functions
- Mathematical Functions
- Variables in DAX
- Context in DAX

Module 7: Advanced DAX



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- Row Context vs Filter Context
- CALCULATE Function
- FILTER Function
- ALL and ALLEXCEPT
- Time Intelligence Functions
- YTD, MTD, QTD Calculations
- Running Totals
- Ranking Functions
- Dynamic Measures
- Advanced Business Calculations
- Performance Optimization in DAX

Module 8: Data Visualization

- Introduction to Visualizations
- Tables and Matrix Reports
- Bar and Column Charts
- Line and Area Charts
- Pie and Donut Charts
- Scatter Charts
- Maps and Geographic Visuals
- KPI Visuals
- Gauge Charts
- Cards and Multi-Row Cards
- Waterfall Charts
- Funnel Charts

Module 9: Interactive Reports

- Slicers
- Filters
- Drill-Down and Drill-Through
- Bookmarks
- Buttons and Navigation
- Tooltips
- Cross Filtering
- Cross Highlighting
- Report Interactions
- Dynamic Visualizations

Module 10: Dashboard Design and Best Practices



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- Dashboard Planning
- Storytelling with Data
- KPI Dashboard Design
- Executive Dashboards
- Sales Analytics Dashboards
- HR Analytics Dashboards
- Financial Dashboards
- User Experience (UX) Best Practices
- Dashboard Performance Optimization

Module 11: Power BI Service

- Introduction to Power BI Service
- Publishing Reports
- Creating Dashboards
- Workspaces
- Apps in Power BI
- Sharing Reports and Dashboards
- Collaboration Features
- Data Refresh Configuration
- Power BI Mobile Access

Module 12: Security in Power BI

- Power BI Security Overview
- Row-Level Security (RLS)
- Dynamic Row-Level Security
- Workspace Roles
- Dataset Security
- Data Governance
- Data Privacy Concepts
- Secure Sharing Practices

Module 13: Advanced Analytics

- Forecasting
- Trend Analysis
- Clustering
- Key Influencers Visual
- Decomposition Tree
- AI-Powered Visualizations



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- Anomaly Detection
- Smart Narratives
- Statistical Analysis Techniques

Module 14: Power BI and Excel Integration

- Importing Excel Data
- Analyze in Excel
- Excel PivotTables with Power BI
- Exporting Data
- Power Query Integration
- Power Pivot Integration

Module 15: SQL for Power BI Professionals

- SQL Fundamentals
- SELECT Statements
- WHERE Clause
- GROUP BY
- JOINS
- Subqueries
- Views
- SQL Optimization Basics
- Using SQL with Power BI

Module 16: Power BI Administration

- Tenant Administration Overview
- Gateway Installation and Configuration
- Data Refresh Management
- Usage Monitoring
- Audit Logs
- Capacity Management
- Governance Best Practices

Module 17: Performance Optimization

- Query Performance Tuning
- DAX Optimization
- Model Size Reduction



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- Efficient Relationships
- Incremental Refresh
- Aggregations
- Best Practices for Large Datasets

Module 18: Power BI Deployment and Integration

- On-Premises Data Gateway
- API Integration
- Embedding Power BI Reports
- Power BI Embedded
- Integration with Microsoft Azure
- Integration with Microsoft Teams
- Power Automate Integration

Module 19: Real-Time Reporting

- Streaming Datasets
- Real-Time Dashboards
- IoT Analytics
- Event-Based Reporting
- Live Data Monitoring

Module 20: Capstone Project and Case Studies

- Sales Performance Dashboard
- Financial Analytics Dashboard
- HR Analytics Dashboard
- Inventory Management Dashboard
- Customer Insights Dashboard
- Executive KPI Dashboard
- End-to-End Business Intelligence Project

Hands-On Projects

Project 1: Sales Analytics Dashboard

- Revenue Analysis
- Profitability Tracking
- Product Performance Analysis



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Project 2: HR Analytics Dashboard

- Employee Attrition Analysis
- Recruitment Metrics
- Workforce Planning

Project 3: Finance Dashboard

- Budget vs Actual Analysis
- Cash Flow Monitoring
- Profit and Loss Reporting

Project 4: Customer Analytics Dashboard

- Customer Segmentation
- Retention Analysis
- Customer Lifetime Value

Project 5: Executive Business Dashboard

- Enterprise KPI Tracking
- Strategic Decision Support