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PowerBI

Duration: 24 Hours, 3 Days per week, 2 Hours per day

Module	Major Categories	Duration
Module 01	Introduction to Power BI	4 Hours
Module 02	Data Preparation in Power BI	4 Hours
Module 03	Creating Basic Visualizations	4 Hours
Module 04	Advanced Visualizations and Formatting	4 Hours
Module 05	Data Modeling and DAX	4 Hours
Module 06	Publishing and Sharing Reports	2 Hours
Module 07	Exam and Certification	2 Hours

Class No	Module Details	Duration
Module 1: Introduction to Power BI		
01	Day 1: Getting Started with Power BI (2 Hours)	4 Hours 2 Days
	<input type="checkbox"/> Introduction to Power BI and its importance in data analysis	
	<input type="checkbox"/> Overview of the Power BI interface and workspace	
	<input type="checkbox"/> Installing and setting up Power BI Desktop	
	<input type="checkbox"/> Creating your first Power BI project	
	Day 2: Data Sources and Loading Data (2 Hours)	
	<input type="checkbox"/> Connecting to various data sources (e.g., Excel, SQL, web)	
	<input type="checkbox"/> Importing and loading data into Power BI	
	<input type="checkbox"/> Data source considerations and best practices	
<input type="checkbox"/> Hands-on exercise: Loading a sample dataset		
Module 2: Data Preparation in Power BI		
02	Day 3: Data Transformation and Cleaning (2 Hours)	4 Hours 2 Days
	<input type="checkbox"/> Understanding the Power Query Editor	
	<input type="checkbox"/> Data transformation operations (filtering, sorting, removing duplicates)	
	<input type="checkbox"/> Data cleaning techniques	
	<input type="checkbox"/> Practical exercises: Cleaning and transforming sample data	
	Day 4: Data Modeling Basics (2 Hours)	
	<input type="checkbox"/> Introduction to data modeling in Power BI	
	<input type="checkbox"/> Creating relationships between tables	
<input type="checkbox"/> Managing data model relationships		

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	<input type="checkbox"/> Hands-on exercise: Building a simple data model	
Module 3: Creating Basic Visualizations		
03	Day 5: Creating Basic Visualizations (2 Hours)	4 Hours 2 Days
	Session 1: Introduction to Data Visualization (1 Hour)	
	<input type="checkbox"/> Understanding the importance of data visualization	
	<input type="checkbox"/> Principles of effective data visualization	
	<input type="checkbox"/> Choosing the right visualization type for your data	
	<input type="checkbox"/> Best practices for creating compelling visuals	
	Session 2: Building Basic Charts (30 minutes)	
	<input type="checkbox"/> Creating bar charts, column charts, and line charts	
	<input type="checkbox"/> Using the Fields pane to add data to visuals	
	<input type="checkbox"/> Customizing visual appearance (colors, labels, titles)	
	<input type="checkbox"/> Practical exercises: Building basic charts with sample data	
	Day 6: Advanced Visualizations and Formatting (2 Hours)	
	Session 1: Pie Charts, Scatter Plots, and Maps (1 Hour)	
	<input type="checkbox"/> Creating pie charts and scatter plots	
	<input type="checkbox"/> Adding maps for geographical data	
	<input type="checkbox"/> Customizing visual properties (legends, tooltips)	
	<input type="checkbox"/> Hands-on exercise: Building pie charts, scatter plots, and maps	
	Session 2: Conditional Formatting and Drill-Through (1 Hour)	
<input type="checkbox"/> Applying conditional formatting to visuals		
<input type="checkbox"/> Creating hierarchical visuals for drill-through		
<input type="checkbox"/> Utilizing bookmarks and buttons for interactivity		
<input type="checkbox"/> Practical exercises: Applying conditional formatting and drill-through actions		
Module 4: Advanced Visualizations and Formatting		

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04	Day 7: Advanced Visualizations and Formatting (2 Hours)	4 Hours 2 days
	Session 1: Advanced Chart Types (1 Hour)	
	<input type="checkbox"/> Exploring advanced chart types like waterfall, funnel, and gauge charts	
	<input type="checkbox"/> Understanding when and how to use these specialized visualizations	
	<input type="checkbox"/> Customizing advanced charts for specific insights	
	<input type="checkbox"/> Practical exercises: Creating advanced chart types	
	Session 2: Custom Visuals and Third-Party Visuals (1 Hour)	
	<input type="checkbox"/> Introduction to custom visuals and their benefits	
	<input type="checkbox"/> Installing and using custom visuals from Power BI marketplace	
	<input type="checkbox"/> Incorporating third-party visuals for unique requirements	
	<input type="checkbox"/> Hands-on exercise: Integrating custom and third-party visuals	
	Day 8: Formatting and Design Best Practices (2 Hours)	
	Session 1: Visual Formatting and Themes (1 Hour)	
	<input type="checkbox"/> Applying consistent formatting to visuals	
	<input type="checkbox"/> Creating and applying custom themes	
	<input type="checkbox"/> Designing for accessibility and readability	
	<input type="checkbox"/> Practical exercises: Formatting visuals and applying themes	
	Session 2: Dashboard Design Principles (1 Hour)	
	<input type="checkbox"/> Understanding dashboard layout and organization	
<input type="checkbox"/> Telling a story with your data through dashboards		
<input type="checkbox"/> Incorporating interactivity and user-friendly design		
<input type="checkbox"/> Hands-on exercise: Designing a compelling dashboard		
Module 5: Data Modeling and DAX		
05	Day 9: Data Modeling and DAX (2 Hours)	4 Hours 2 days
	Session 1: Introduction to Data Modeling (1 Hour)	
	<input type="checkbox"/> Understanding the importance of data modeling in Power BI	
	<input type="checkbox"/> Building relationships between tables	
	<input type="checkbox"/> One-to-many and many-to-one relationships	
	<input type="checkbox"/> Practical exercises: Establishing data model relationships	
Session 2: Data Analysis Expressions (DAX) Fundamentals (1 Hour)		

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	<input type="checkbox"/> Introduction to DAX and its role in Power BI <input type="checkbox"/> Understanding DAX syntax and functions <input type="checkbox"/> Creating calculated columns and measures <input type="checkbox"/> Practical exercises: Writing basic DAX calculations Day 10: Advanced DAX and Time Intelligence (2 Hours) Session 1: Advanced DAX Functions (1 Hour) <input type="checkbox"/> Exploring advanced DAX functions (e.g., FILTER, CALCULATE, ALL) <input type="checkbox"/> Aggregating and filtering data using DAX <input type="checkbox"/> Building complex calculations <input type="checkbox"/> Hands-on exercise: Using advanced DAX functions Session 2: Time Intelligence in Power BI (1 Hour) <input type="checkbox"/> Understanding time intelligence functions in DAX <input type="checkbox"/> Calculating year-to-date, month-to-date, and other time-related measures <input type="checkbox"/> Creating dynamic date calculations <input type="checkbox"/> Practical exercises: Implementing time intelligence calculations	
Module 6: Publishing and Sharing Reports		
06	Day 11: Publishing and Sharing Reports (1 Hour) Session 1: Publishing to Power BI Service (30 minutes) <input type="checkbox"/> Introduction to Power BI Service <input type="checkbox"/> Preparing reports for publishing <input type="checkbox"/> Uploading and publishing reports from Power BI Desktop <input type="checkbox"/> Practical exercises: Publishing a sample report to Power BI Service Session 2: Sharing and Collaboration (30 minutes) <input type="checkbox"/> Understanding sharing options in Power BI <input type="checkbox"/> Collaborative features, including sharing dashboards and reports <input type="checkbox"/> Setting up and managing workspaces <input type="checkbox"/> Hands-on exercise: Sharing and collaborating on a report	2 Hours 1 day
Module 7: Exam and Certification		
07	<input type="checkbox"/> Final Assessment Exam	2 Hours 1 day