



**TCG**

Trident Consulting Group

# Power BI Training - Level 1 - Curriculum

## **Module 1: Introduction to Power BI (2 hours)**

- Understanding the basics of Power BI, including its purpose, benefits, and applications in business intelligence.
- Familiarizing with the Power BI interface, including the main components such as the Power BI Desktop and Power BI Service.
- Exploring the basic functionalities of Power BI, such as creating reports, visualizations, and dashboards.

## **Module 2: Connecting Data Sources (1 hour)**

- Learning how to connect Power BI to different data sources, such as Excel, CSV, SQL Server, and more.
- Understanding the process of importing data into Power BI, including data preparation and data modeling.
- Exploring options for data transformation and cleaning using Power Query Editor.

## **Module 3: Data Modeling (1.5 hours)**

- Understanding the fundamentals of data modeling in Power BI, including creating relationships between tables, managing data types, and creating calculated columns and measures.
- Learning how to create and manage relationships between tables using Power BI's built-in tools.
- Exploring the use of calculated columns and measures to perform data calculations and aggregations.

## **Module 4: Creating Visualizations (1.5 hours)**

- Learning how to create various types of visualizations in Power BI, such as charts, tables, matrices, and more, to showcase data effectively.
- Understanding the best practices for creating visually appealing and informative visualizations.
- Exploring options for customization and interaction with visualizations, including adding filters, slicers, and drill-down functionality.

## **Module 5: Formatting and Customizing Visualizations (1 hour)**

- Learning how to format and customize visualizations in Power BI, including changing colors, fonts, styles, and other visual properties.
- Understanding how to use themes, templates, and formatting options to create consistent and professional-looking reports and dashboards.
- Exploring options for conditional formatting, data labels, and other customization features in Power BI.



Trident Consulting Group

### **Module 6: Sharing Reports and Dashboards (1 hour)**

- Understanding how to share reports and dashboards with others in Power BI, including creating and publishing to the Power BI service.
- Learning how to share reports and dashboards with colleagues and stakeholders and managing permissions and access.
- Exploring options for embedding reports in other applications and using Power BI mobile app for on-the-go data analysis.

### **Module 7: Advanced Topics (1 hour)**

- Diving deeper into advanced topics in Power BI, such as creating complex calculations with DAX (Data Analysis Expressions) for advanced data modeling and analysis.
- Exploring the use of Power Query for data transformation and cleaning and using Power BI with Azure for advanced data integration and analysis.
- Understanding best practices and tips for optimizing data models and performance in Power BI and troubleshooting common issues.

### **Module 8: Practice and Q&A (1 hour)**

- Reviewing the key concepts and techniques covered in the previous modules.
- Providing opportunities for hands-on practice with Power BI, including creating reports, visualizations, and dashboards.
- Answering any questions and addressing specific concerns or challenges faced by learners.

For more information visit [TridentConsulting.us](https://TridentConsulting.us)