



DATA VISUALIZATION USING POWER BI – BASIC TO INTERMEDIATE

BY ELITE INDIGO



Data Visualization using PowerBI – Basic to Intermediate

• Program Overview

Power BI is quickly becoming the world's most powerful self-service business intelligence platform, and an essential tool for data professionals and beginners alike. With Power BI you can connect to hundreds of data sources, build complex relational models using simple and intuitive tools, and design stunning, interactive dashboards from scratch -- all for free.

By the end of the course, not only will you have developed an entire business intelligence tool from the ground up using Power BI, but you will have gained the knowledge and confidence to apply these same concepts to your own Power BI projects

• Learning Objectives

By the end of the course, participants will be able to:

- Build professional-quality business intelligence reports from the ground up
- Blend and transform raw data into beautiful interactive dashboards
- Design and implement the same B.I. tools used by professional analysts and data scientists
- Showcase your skills with two full-scale course projects (with step-by-step solutions)
- Understand the business intelligence workflow from end-to-end

• Duration Two (2) Full-Day Workshop;



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• Course Schedule (Day 1)

DAY/TIME	Description
1 Hour	Welcome & Introduction • What is Power Bi? • Power Bi Desktop • Power Bi Screen Interface
2 Hours	Connect Raw Data to Power Bi • Intro to the Power BI Query Editor • Types of Power BI Data Connectors • Modifying, Merging & Appending Queries • Connecting to Folders
1 Hour	Lunch
2 hours	Transform Complex Raw Data Using Power Query • Basic Table Transformations • Text, Number & Date Tools • Index & Conditional Columns • Grouping & Aggregating Data • Pivoting & Unpivoting
2 Hours 30 Minutes	Enable Relational Data Model • Intro to Database Normalization • Data ("Fact") Tables vs. Lookup ("Dimension") Tables • Creating Power BI Table Relationships • Relationship Cardinality • Connecting Multiple Data Tables • Filtering & Cross-Filtering • Hiding Fields from the Power BI Report View



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• Course Schedule (Day 2)

DAY/TIME	Description
1 Hour	Introduction to DAX Measures • Intro to Data Analysis Expressions (DAX) • Calculated Columns vs. Measures • DAX Syntax & Operators • Common Power BI Functions
2 Hours	Add Calculated Fields with DAX • Basic Date & Time Formulas • Logical & Conditional Statements • Text, Math & Stats Functions • Joining Data with RELATED • CALCULATE, ALL & FILTER Functions
1 Hour	Lunch
2 Hours	Introduction to Power Bi Visualization • Intro to the Power BI Report View • Adding Basic Charts to Power BI Reports
2 Hours 30 Minutes	Design Interactive Power BI Reports • Formatting & Filtering Options • Matrix Visuals • Slicers & Timelines • Cards & KPIs • Power BI Map Visuals (Basic, Fill, ArcGIS)

ABOUT ELITE INDIGO

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