

Power BI Expert

Analyzing Data Using Power BI



Business intelligence (BI) leverages software and services to transform data into actionable insights that inform an organization's business decisions. BI tools access and analyze data sets and present analytical findings in reports, summaries, dashboards, graphs, charts, and maps to provide users with detailed intelligence about the state of the business. The term business intelligence often also refers to a range of tools that provide quick, easy-to-digest access to insights about an organization's current state, based on available data. In this Course you will Learn data visualization through Microsoft Power BI and create opportunities for you or key decision makers to discover data patterns such as customer purchase behavior, sales trends, or production bottlenecks.

You Must Know!

Duration:

60 Hours

Who should attend?

A BI developer is generally required to have at least a bachelor's degree in programming, computer science, Business management or Industrial engineering & management, as well as Work Experience with SQL.

Main Topics:

- Power BI Desktop Reports
- Data Models
- Data Model Functions
- Power BI Service
- BI Data
- Advanced Concepts

Course modules

Module 1 – Introducing Power BI

- What Is Power BI for the Cloud
- Power BI Key Features
- Self-Service BI Model
- Power BI Components

Module 2 – Defining & Building Power BI Desktop Reports

- What is a Power BI Report?
- Defining a Report
- Data-Driven Storytelling
- Power BI Desktop Design Interface
- Creating Reports
- Report Visualizations
- Formatting Visualizations
- Report Final Touches

Module 3 – Report Filtering

- Drill-down & Data Actions
- Filters
- Visual Interactions
- Slicers and Advance Card Visuals
- Bookmarks & Buttons

Module 4 – Understanding Power BI Data Models

- Understanding Data Terminology
- Understanding Tables
- Understanding Relationships
- Diagnosing Data Models
- Data Model Schemas

Module 5 – Gathering Report Data

- Data Queries vs Data Models
- Viewing & Refreshing a Data Source
- Modifying Report Data

Module 6 – Data Model Functions

- What is DAX?
- Calculated Columns
- DAX Functions
 - DAX Measures
 - Creating Measures
 - Best Practices
- Rules of Evaluation
- Evaluation Context
- Formatting DAX Code
- Controlling DAX Values
- Error Handling

Module 7 – Introducing the Power BI Service

- Power BI Service Interface
- Connecting to Data Sources
- Uploading & Updating PBIX Reports
- Refreshing Power BI Data
- Power BI Service Report Interface Components

Module 8 – Building Power BI Service Dashboards

- Dashboard Components
- Building Dashboards
- Organizing Dashboard Elements

Module 9 – Using Q & A (Cortana)

- Understanding Q & A
- Modifying Q & A Results
- Pinning Q & A results to a Dashboard

Module 10 – Sharing Reports & Dashboards

- Sharing Content
- App Workspaces
- Managing App Workplace & Audit Content

Module 11 – Understanding BI Data

- Business Intelligence Data
- Data Source Types
- Power BI Data Sources

Module 12 – Creating & Customizing Data Models

- Power BI Query Import Options
- Planning a Data Model – Flat File
- Planning Power BI Data Queries
- Planning a Data Model – Database
- Planning a Data Model – Hybrid
- Query Editor Transformations
- Applied Steps
- Merging & Appending Queries
- Understanding the Data Modeling Tool

Module 13 – Using Data Correctly

- Building Data Tables
- Building Hierarchies

Module 14 – Content Control Functions

- Iterative Functions
- FILTER Function
- ALL Function
- CALCULATE Function

Module 15 – Contexts In Relationships

- Working with Many Tables
- Row Context & Relationships
- Elevated Calculated Columns
- Filter Context & Relationships
- Cross Filtering Issues

Module 16 – Time Intelligence Functions

- Calculating Operating Periods
- To-Date Functions
- Controlling Totals
- Advanced Date Functions
- Prior Year Functions

Module 17 – Advanced Concepts

- Additional Uses of The ALL Function
- Advanced Data Tables
- Working with Missing Periods
- Working with Non-standard Years
- Parameter Tables
- Banding



המרכז הבינלאומי
ללימודי הייטק וחדשנות

* 6377

מתקדמים
לקריירה בהייטק



Microsoft Partner
Gold Learning



קמפוסים בפריסה ארצית:

באר שבע

רחוב האנגריה 77
פארק ההייטק

ירושלים

רחוב יפו 34

רחובות

רחוב אופנהיימר 5
פארק המדע

תל אביב

ראול ולנברג 36
קריית עתידים