

KOENIG SOLUTIONS • COURSE OUTLINE

Power BI Beginner to Advanced

Learn to connect, model and visualize data with Power BI, from data import and DAX to dashboards, publishing and security.

5 Days

40 HOURS

12

MODULES

36

TOPICS

COURSE OVERVIEW

This course covers Power BI starting with its components and interface, connecting to data sources and transforming data with Power Query. It moves into data modeling and DAX, building basic and advanced visualizations, and designing interactive dashboards. It then addresses the Power BI Service for publishing, sharing and refresh schedules, the mobile app, integration with Excel, and security and administration through row-level security and workspace management. It closes with case studies, hands-on projects and best practices alongside emerging trends in BI.

WHO THIS COURSE IS FOR

BI Developers

Data Analysts

Report Designers

Excel Analysts

Business Intelligence Administrators

LEARNING OBJECTIVES

- Describe Power BI components and install Power BI Desktop
- Connect to data sources and transform data with Power Query
- Build data models and define relationships between tables
- Apply DAX functions including time intelligence for calculations
- Create and customize basic and advanced visualizations
- Design interactive dashboards using slicers and custom visuals
- Publish and share reports through Power BI Service
- Implement row-level security and manage workspace permissions

12 Modules, 36 Topics

01

Introduction to Power BI

TOPICS

Overview of Business Intelligence (BI) · Introduction to Power BI and its components · Installing and setting up Power BI Desktop

02

Getting Started with Power BI

TOPICS

- Understanding the Power BI interface
- Connecting to data sources (Excel etc.)
- Importing and transforming data using Power Query

03

Data Modeling

TOPICS

- Creating and managing data models
- Establishing relationships between tables
- Introduction to DAX (Data Analysis Expressions)

04

Data Visualization

TOPICS

- Creating basic visualizations (charts, tables, maps)
- Customizing visualizations (formatting, themes)
- Using slicers and filters for interactive reports

05

Advanced Data Modeling

TOPICS

Advanced DAX functions and calculations · Time intelligence functions · Optimizing data models for performance

06

Advanced Visualizations

TOPICS

- Creating advanced visualizations (scatter plots, waterfall charts)
- Using custom visuals from the Power BI marketplace
- Designing interactive dashboards

07

Power BI Service

TOPICS

Publishing reports to Power BI Service · Sharing and collaborating on reports · Setting up data refresh schedules

08

Power BI Mobile

TOPICS

- Overview of Power BI Mobile app
- Creating mobile-optimized reports
- Viewing and interacting with reports on mobile devices

09

Power BI and Excel Integration

TOPICS

Using Power BI Publisher for Excel · Analyzing Power BI data in Excel · Exporting Power BI reports to Excel

10

Security and Administration

TOPICS

Implementing row-level security (RLS) · Managing user roles and permissions · Administering Power BI workspaces

11

Case Studies and Projects

TOPICS

- Real-world Power BI projects (For example HR Analytics Dashboard etc.)
- Hands-on practice with sample datasets
- Presenting findings and insights

Best Practices and Future Trends

TOPICS

Best practices for Power BI development · Emerging trends in BI and data analytics · Continuous learning and certification paths

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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