

KOENIG SOLUTIONS · COURSE OUTLINE

Power BI Data Analyst with Fabric (Comprehensive)

Learn to connect, model, visualise and manage data in Power BI Desktop and the Service, extending into Microsoft Fabric.

24 Hours

DURATION

18

MODULES

56

TOPICS

10

HANDS-ON LABS

COURSE OVERVIEW

This course covers the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will show how to access and process data from a range of data sources including both relational and non-relational sources. Finally, this course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution. Fabric analyst is an intermediate-level training designed for Power BI Data Analysts to identify when their organizations can benefit from using Microsoft Fabric for their specific business scenarios.

WHO THIS COURSE IS FOR

Candidates for the PL-300 exam deliver actionable insights by working with available data and applying domain expertise. They provide meaningful business value through easy-to-comprehend data visualizations, enable others to perform self-service analytics, and deploy and configure solutions for consumption.

Candidates for this exam should be proficient at using Power Query and writing expressions by using Data Analysis Expressions (DAX). These professionals know how to assess data quality. Plus, they understand data security, including row-level security and data sensitivity.

LEARNING OBJECTIVES

- Identify and connect to a range of data sources
- Clean, transform and load data using Power Query
- Design data models with relationships and hierarchies
- Build calculated measures, columns and tables with DAX
- Apply DAX functions and filter context for advanced calculations
- Design interactive reports and enhance user experience
- Create and share dashboards and manage workspaces
- Configure row-level security and semantic model refresh

18 Modules, 56 Topics

01

Learning Path 1: Get Started with Microsoft Data Analytics - Discover Data Analysis

TOPICS

Data analyst tasks

02

Learning Path 1: Get Started with Microsoft Data Analytics - Get Started Building with Power BI

TOPICS

Power BI services and applications work · The Flow of Power BI · Building Blocks of Power BI

01

Lab

Learning Path 2: Prepare Data in Power BI Desktop - Get Data in Power BI

TOPICS

Identify and connect to a data source · Select storage mode · Fix performance issues · Resolve import errors

02

Lab

Learning Path 2: Prepare Data in Power BI Desktop - Clean, Transform, and Load Data in Power BI

TOPICS

- Resolve inconsistencies and data quality issues
- Apply user friendly naming conventions
- Apply data shape transformations

01

Lab

Learning Path 3: Model Data with Power BI Desktop - Design a Data Model in Power BI

TOPICS

Data table types · Star schema · Create relationships · Edit relationships · Create hierarchies

02

Lab

Learning Path 3: Model Data with Power BI Desktop - Add Measures to Semantic Models

TOPICS

DAX concept and syntax · Calculated measures, columns, and tables

03

Lab

Learning Path 3: Model Data with Power BI Desktop - Use DAX Functions

TOPICS

Filter context · Understand and manipulate filter context · Use DAX functions to extend semantic models · Create custom date table

04

Learning Path 3: Model Data with Power BI Desktop - Optimize Model Performance

TOPICS

Variables in DAX expressions · Performance analyzer

05

Lab

Learning Path 3: Model Data with Power BI Desktop - Create Visual Calculations

TOPICS

- Understand visual calculations and how they differ from measures
- Create visual calculations in Power BI Desktop

01

Lab

Learning Path 4: Build Power BI Visuals and Reports - Design Power BI Reports

TOPICS

- Understand Power BI report structure and report objects
- Choose effective visuals
- Format and configure visuals
- Explore interactive features of visuals

02

Lab

Learning Path 4: Build Power BI Visuals and Reports - Enhance Reports for User Experience

TOPICS

Design report navigation and filtering · Add report elements and bookmarks · Drill through to other visuals

01

Learning Path 5: Perform Advanced Analytics with Power BI Desktop - Perform Advanced Analytics

TOPICS

Use the Analyze feature · Group, Bin and Cluster data · Identify patterns and trends

01

Learning Path 6: Manage Workspaces and Datasets in Power BI - Create and Manage Workspaces

TOPICS

Create workspaces and manage permissions · Explore different workspace items · Share and distribute reports

02

Learning Path 6: Manage Workspaces and Datasets in Power BI - Manage Semantic Models

TOPICS

- Use a Power BI gateway to connect to on-premises data sources
- Configure a scheduled refresh for a semantic model
- Manage and promote semantic models

03**Lab**

Learning Path 6: Manage Workspaces and Datasets in Power BI - Create Dashboards

TOPICS

Create a Power BI dashboard · Pin a live report page to a dashboard · Add a theme to the visuals in your dashboard · Set a mobile view

04**Lab**

Learning Path 6: Manage Workspaces and Datasets in Power BI - Implement row-level Security

TOPICS

- Configure row-level security by using a static method
- Configure row-level security by using a dynamic method row-level security

05

Learning Path 6: Manage Workspaces and Datasets in Power BI - Explore Copilot for Power BI

TOPICS

- Understand semantic model requirements
- Create visuals and reports using Copilot for Power BI

Power BI Fabric

TOPICS

Introducing the new Microsoft Fabric solution · OneLake overview · Data Engineering overview · Data Integration overview · Data Warehousing overview · Business Intelligence overview

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	Learning Path 2: Prepare Data in Power BI Desktop - Get Data in Power BI	Get data in Power BI Desktop
02	Learning Path 2: Prepare Data in Power BI Desktop - Clean, Transform, and Load Data in Power BI	Load data in Power BI Desktop
01	Learning Path 3: Model Data with Power BI Desktop - Design a Data Model in Power BI	Design a data model in Power BI Desktop
02	Learning Path 3: Model Data with Power BI Desktop - Add Measures to Semantic Models	Create DAX calculations in Power BI Desktop
03	Learning Path 3: Model Data with Power BI Desktop - Use DAX Functions	Advanced DAX calculations in Power BI Desktop
05	Learning Path 3: Model Data with Power BI Desktop - Create Visual Calculations	Create visual calculations in Power BI Desktop
01	Learning Path 4: Build Power BI Visuals and Reports - Design Power BI Reports	Design a report in Power BI Desktop
02	Learning Path 4: Build Power BI Visuals and Reports - Enhance Reports for User Experience	Enhance a report in Power BI Desktop
03	Learning Path 6: Manage Workspaces and Datasets in Power BI - Create Dashboards	Create a Power BI Dashboard

#	MODULE	ACTIVITY
04	Learning Path 6: Manage Workspaces and Datasets in Power BI - Implement row-level Security	Enforce row-level security in Power BI

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.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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