PL-300T00 | Microsoft Power BI Data Analyst

Duration Course: 24h

Overview

The audience for this course are data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises.

Prerequisites

Successful Data Analysts start this role with experience of working with data in the cloud.

Specifically:

- Understanding core data concepts.
- Knowledge of working with relational data in the cloud.
- Knowledge of working with non-relational data in the cloud.
- Knowledge of data analysis and visualization concepts.

You can gain the prerequisites and a better understanding of working with data in Azure by completing Microsoft Azure Data Fundamentals before taking this course.

Course Modules

1 - Discover data analysis

- Overview of data analysis
- Roles in data
- Tasks of a data analyst

2 - Get started building with Power BI

- Use Power BI
- Building blocks of Power BI
- Tour and use the Power BI service

3 - Introduction to end-to-end analytics using Microsoft Fabric

- Explore end-to-end analytics with Microsoft Fabric

- Explore data teams and Microsoft Fabric
- Enable and use Microsoft Fabric
- Module assessment

4 - Get started with Copilot in Power BI

- Use Copilot in Power BI to prepare and model data
- Create reports with Copilot in Power BI
- Get your data ready for AI usage in Power BI
- Module assessment

5 - Get data in Power BI

- Get data from files
- Get data from relational data sources
- Create dynamic reports with parameters
- Get data from a NoSQL database
- Get data from online services
- Select a storage mode
- Get data from Azure Analysis Services
- Fix performance issues
- Resolve data import errors

6 - Clean, transform, and load data in Power BI

- Shape the initial data
- Simplify the data structure
- Evaluate and change column data types
- Combine multiple tables into a single table
- Profile data in Power BI
- Use Advanced Editor to modify M code

7 - Choose a Power BI model framework

- Describe Power BI model fundamentals
- Determine when to develop an import model
- Determine when to develop a DirectQuery model
- Determine when to develop a composite model
- Choose a model framework
- Module assessment

8 - Configure a semantic model

- Configure relationships
- Configure tables
- Configure columns
- Configure hierarchies
- Configure measures
- Configure parameters

9 - Write DAX formulas for semantic models

- Understand DAX calculation types
- Write DAX formulas
- DAX data types
- Work with DAX functions
- Use DAX operators
- Use DAX variables

10 - Create DAX calculations in semantic models

- Create calculated tables
- Create calculated columns
- Understand implicit measures
- Create explicit measures
- Use iterator functions

11 - Use DAX time intelligence functions in semantic models

- Use DAX time intelligence functions
- Additional time intelligence calculations

12 - Create visual calculations in Power BI Desktop

- Understand visual calculations
- Create visual calculations
- Use parameters in visual calculations
- Module assessment

13 - Optimize a model for performance in Power BI

- Describe semantic model optimization techniques
- Review performance of measures, relationships, and visuals
- Use variables to improve performance and troubleshooting
- Reduce cardinality
- Optimize DirectQuery models with table level storage
- Create and manage aggregations

14 - Scope report design requirements

- Identify the audience
- Determine report types
- Define user interface requirements
- Define user experience requirements
- Explore designs in a Power BI report

15 - Design Power BI reports

- Design the analytical report layout
- Design visually appealing reports
- Use report objects
- Select report visuals
- Apply filters and slicers to reports
- Understand filtering techniques and considerations
- Case study - Configure report filters based on feedback

16 - Enhance Power BI report designs for the user experience

- Design reports to show details
- Design reports to highlight values
- Design reports that behave like apps
- Work with bookmarks
- Design reports for navigation
- Work with visual headers
- Design reports with built-in assistance
- Tune report performance
- Optimize reports for mobile use

17 - Perform analytics in Power BI

- Explore statistical summary
- Identify outliers with Power BI visuals
- Group and bin data for analysis
- Apply clustering techniques
- Conduct time series analysis
- Use the Analyze feature
- Create what-if parameters
- Use specialized visuals

18 - Manage workspaces in Power BI service

- Understand Power BI service
- Understand workspaces
- Publish to Power BI service

19 - Manage semantic models in Power BI

- Use a Power BI gateway to connect to on-premises data sources
- Configure a semantic model scheduled refresh
- Configure incremental refresh settings
- Manage and promote semantic models
- Boost performance with query caching (Fabric or Premium capacity)
- Use lineage and impact analysis

20 - Choose a content distribution method

- Understand sharing models
- Create a Power BI app
- Apply data governance principles
- Track report or dashboard usage

21 - Create dashboards in Power BI

- Configure data alerts
- Explore data by asking questions
- Review Quick insights
- Add a dashboard theme
- Pin a live report page to a dashboard
- Set mobile view

22 - Secure data access in Power BI

- Configure row-level security with the static method
- Configure row-level security with the dynamic method
- Use single sign-on (SSO) for DirectQuery sources
- Restrict access to Power BI model objects

Ωρολόγιο Πρόγραμμα

Ημερομηνίες	*Ωράριο Μαθημάτων*
Πέμπτη, 19 Νοέμβριος 2026	*18:30 – 21:45*
Τρίτη, 24 Νοέμβριος 2026	*18:30 – 21:45*
Πέμπτη, 26 Νοέμβριος 2026	*18:30 – 21:45*
Τρίτη, 1 Δεκέμβριος 2026	*18:30 – 21:45*
Πέμπτη, 3 Δεκέμβριος 2026	*18:30 – 21:45*
Τρίτη, 8 Δεκέμβριος 2026	*18:30 – 21:45*

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