# PL-300T00: Microsoft Power BI Data Analyst

**Category:** AI, Data & Analytics | **Vendor:** Microsoft

**Duration:** 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

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|---|---|
| **Delivery Format:** | Instructor Led - Online, Mentored |
| **Certification:** | Microsoft Certified: Power BI Data Analyst Associate |
| **Related Exam:** | PL-300 |

## 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.

## About This Course

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.

## Who Should Attend

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 & Entry Requirements

**General Prerequisites:**

- 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.
- DP-900T00 Microsoft Azure Data Fundamentals is recommended

# Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI Course ObjectivesIngest, clean, and transform dataModel data for performance and scalabilityDesign and create reports for data analysisApply and perform advanced report analyticsManage and share report assetsCreate paginated reports in Power BI, Design and manage analytics solutions using Power BI

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# Detailed Course Outline

## 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 - 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

## 4 - 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

## 5 - Design a semantic model in Power BI

- Work with tables
- Create a date table
- Work with dimensions
- Define data granularity
- Work with relationships and cardinality
- Resolve modeling challenges

### 6 - Add measures to Power BI Desktop models

- Create simple measures
- Create compound measures
- Create quick measures
- Compare calculated columns with measures

### 7 - Add calculated tables and columns to Power BI Desktop models

- Create calculated columns
- Learn about row context
- Choose a technique to add a column

### 8 - Use DAX time intelligence functions in Power BI Desktop models

- Use DAX time intelligence functions
- Additional time intelligence calculations

### 9 - Optimize a model for performance in Power BI

- 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

### 10 - Design Power BI reports

- Design the analytical report layout
- Design visually appealing reports
- Report objects
- Select report visuals
- Select report visuals to suit the report layout
- Format and configure visualizations
- Work with key performance indicators

### 11 - Configure Power BI report filters

- Apply filters to the report structure
- Apply filters with slicers
- Design reports with advanced filtering techniques
- Consumption-time filtering
- Select report filter techniques
- Case study - Configure report filters based on feedback

### 12 - 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

### 13 - 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

### 14 - Create and manage workspaces in Power BI

- Distribute a report or dashboard
- Monitor usage and performance
- Recommend a development life cycle strategy
- Troubleshoot data by viewing its lineage
- Configure data protection

### 15 - 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
- Troubleshoot service connectivity
- Boost performance with query caching (Premium)

### 16 - 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
- Configure a real-time dashboard
- Set mobile view

### 17 - Implement row-level security

- Configure row-level security with the static method
- Configure row-level security with the dynamic method

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- Overview of data analysis
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## 2 - Get started building with Power BI

- Use Power BI
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## 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, 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, 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

, LAB Outline, Get started with Microsoft data analytics, Prepare data for analysis with Power BI, Model data with Power BI, Build Power BI visuals and reports, Manage workspaces and datasets in Power BI, Create dashboards in Power BI, Perform analytics in Power BI, Work with AI visuals in Power BI, Create and manage workspaces in Power BI, Implement row-level security, Manage datasets in Power BI, Optimize a model for performance in Power BI, Work with Power BI visuals, Create a data-driven story with Power BI reports, Introduction to creating measures using DAX in Power BI, Design a data model in Power BI, Clean, transform and load data in Power BI, Discover data analysis, Get started building with Power BI, Get data in Power BI

### □□ Certification Path

Microsoft Certified: Power BI Data Analyst Associate

Exam: PL-300

## Upcoming Schedule

**Available training dates for PL-300T00: Microsoft Power BI Data Analyst:**

| Start Date | End Date | Location | Delivery | Price |
|---|---|---|---|---|
| 17 Nov 2026 | 19 Nov 2026 | Online | Virtual | €1,895.00 |
| 30 Nov 2026 | 02 Dec 2026 | Online | Virtual | €1,895.00 |
| 09 Dec 2026 | 11 Dec 2026 | Online | Virtual | €1,895.00 |
| 21 Dec 2026 | 23 Dec 2026 | Online | Virtual | €1,895.00 |
| 04 Jan 2027 | 06 Jan 2027 | Online | Virtual | €1,895.00 |

## Additional Course Details

Nexus Humans PL-300 Microsoft Power BI Data Analyst training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the PL-300 Microsoft Power BI Data Analyst course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

### Q: What delivery options are available for PL-300T00: Microsoft Power BI Data Analyst?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: What certification does this course prepare me for?

The PL-300T00: Microsoft Power BI Data Analyst course helps prepare you for the Microsoft Certified: Power BI Data Analyst Associate certification path.

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### Q: Which exam does this course prepare me for?

This course prepares you for the PL-300 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

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### Q: How many CPD hours does this course provide?

The 3-day PL-300T00: Microsoft Power BI Data Analyst course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the PL-300T00: Microsoft Power BI Data Analyst training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for PL-300T00: Microsoft Power BI Data Analyst?

Yes, we provide corporate training, dedicated training, and closed classes for PL-300T00: Microsoft Power BI Data Analyst. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: pl300 mcsa data analyst pl 300 certified power BI certification, PL-300T00: Design and manage analytics solutions using Power BI, Microsoft, vILT, PL-300T00

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### Q: Why choose Nexus Human for PL-300T00: Microsoft Power BI Data Analyst?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your PL-300T00: Microsoft Power BI Data Analyst training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

**Professional Training & Development**

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