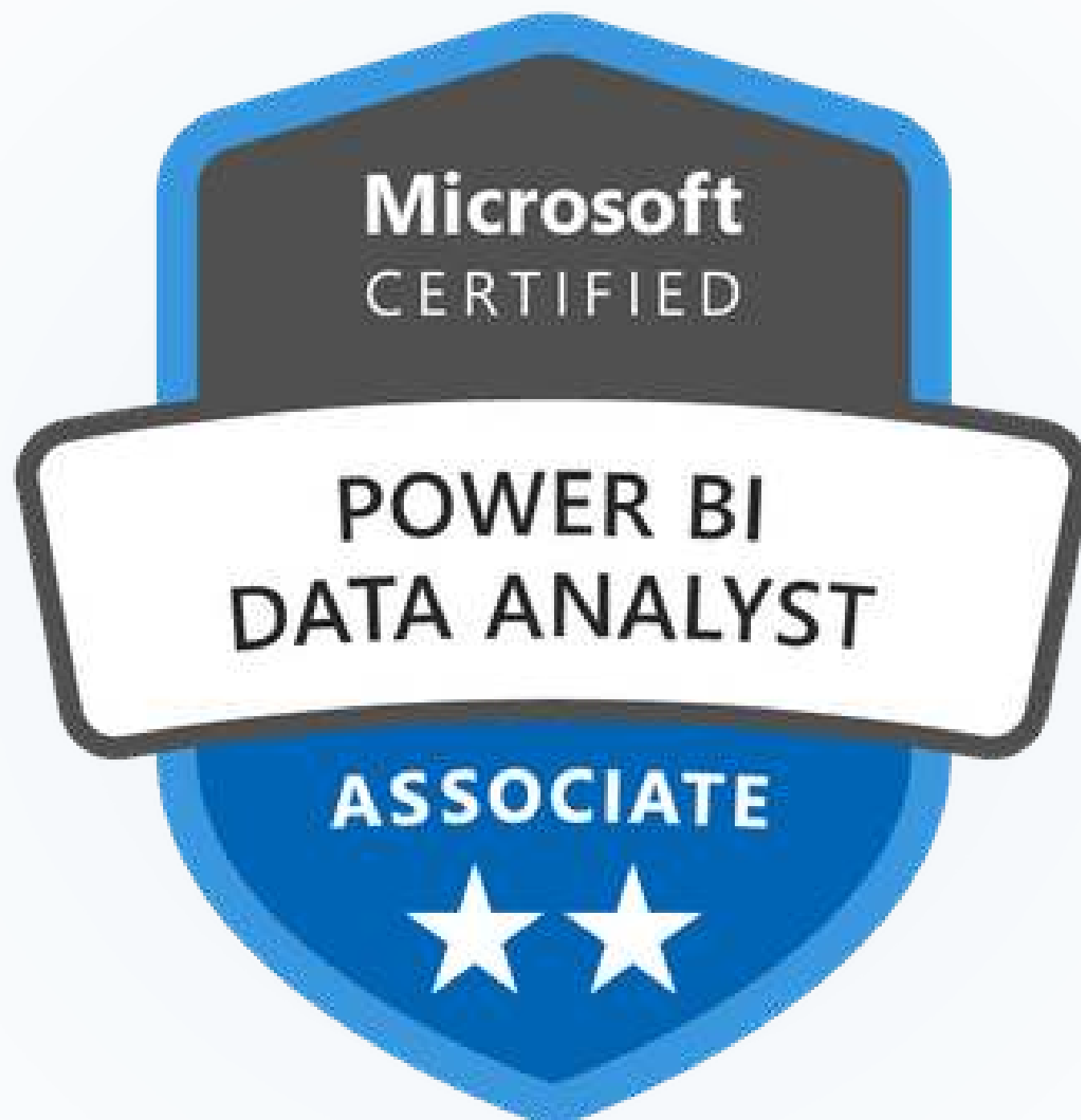


— **Complete** —

Power BI

PL-300 Guide





Disclaimer

Everyone learns uniquely.

What matters is developing the problem solving ability to solve new problems.

This Doc will help you with the same.



What is the PL-300 Certification Exam?

The **PL-300 Certification Exam** focuses on evaluating your proficiency in tasks such as:

- Identifying business requirements
- Data cleansing and transformation
- Constructing data models
- Providing actionable insights
- Facilitating self-service analytics for others
- Deploying solutions for consumption through Power BI

This certification is designed to assess your capabilities as a Microsoft Power BI Data Analyst Associate.

This learning path aims to guide you through the exam structure, offer recommendations, and provide resources to help you successfully prepare for and obtain the certification.

Exam Components

The exam assesses these competencies through four distinct functional components:



- **Prepare the Data (15–20%):** This involves acquiring data from diverse sources and performing tasks such as cleaning, transforming, and loading data to ensure its readiness for analysis.
- **Model the Data (30–35%):** This component focuses on designing and creating data models, executing model calculations using DAX (Data Analysis Expressions), and optimizing model performance for efficient analysis.
- **Visualize and Analyze the Data (30–35%):** Here, the emphasis is on creating reports and dashboards, enhancing them for improved usability and storytelling, and identifying patterns and trends within the data.
- **Deploy and Maintain Assets (10–15%):** The final component involves managing files and datasets, as well as overseeing workspaces to ensure the effective deployment and maintenance of Power BI assets.



Link to Exam

Exam PL-300: Microsoft Power BI Data Analyst - Certifications

➤ Prepare the data (25–30%)

Get data from data sources

- Identify and connect to a data source
- Change data source settings, including credentials, privacy levels, and data source locations
- Select a shared dataset, or create a local dataset
- Choose between DirectQuery, Import, and Dual mode
- Change the value in a parameter

Transform and load the data

- Select appropriate column data types
- Create and transform columns
- Transform a query
- Design a star schema that contains facts and dimensions
- Identify when to use reference or duplicate queries and the resulting impact
- Merge and append queries
- Identify and create appropriate keys for relationships
- Configure data loading for queries



Clean the data

- Evaluate data, including data statistics and column properties
- Resolve inconsistencies, unexpected or null values, and data quality issues
- Resolve data import errors



Resources

Get and transform data with Power BI - Training | Microsoft Learn

Prepare data for analysis with Power BI - Training | Microsoft Learn

Data Preparation Course in Power BI with Power Query Editor

Data Transformation in Power BI Course | DataCamp

➤ Model the data (25–30%)

Design and implement a data model

- Configure table and column properties
- Implement role-playing dimensions
- Define a relationship's cardinality and cross-filter direction
- Create a common date table
- Implement row-level security roles

Create model calculations by using DAX

- Create single aggregation measures
- Use CALCULATE to manipulate filters
- Implement time intelligence measures
- Identify implicit measures and replace with explicit measures
- Use basic statistical functions
- Create semi-additive measures
- Create a measure by using quick measures
- Create calculated tables

Optimize model performance

- Improve performance by identifying and removing unnecessary rows and columns
- Identify poorly performing measures, relationships, and visuals by using Performance Analyzer
- Improve performance by choosing optimal data types
- Improve performance by summarizing data



Resources

[Model data with Power BI - Training | Microsoft Learn](#)

[Data Modeling in Power BI Course | DataCamp](#)

[Intermediate Data Modeling in Power BI Course | DataCamp](#)

[Data Analysis Expressions \(DAX\) Reference](#)

[Learn DAX basics in Power BI Desktop](#)



Visualize and analyze the data (25–30%)

Create reports

- Identify and implement appropriate visualizations
- Format and configure visualizations
- Use a custom visual
- Apply and customize a theme
- Configure conditional formatting
- Apply slicing and filtering
- Configure the report page
- Use the Analyze in Excel feature
- Choose when to use a paginated report



Enhance reports for usability and storytelling

- Configure bookmarks
- Create custom tooltips
- Edit and configure interactions between visuals
- Configure navigation for a report
- Apply sorting
- Configure sync slicers
- Group and layer visuals by using the Selection pane
- Drill down into data using interactive visuals
- Configure export of report content, and perform an export
- Design reports for mobile devices



Identify patterns and trends

- Use the Analyze feature in Power BI
- Use grouping, binning, and clustering
- Incorporate the Q&A feature in a report
- Use AI visuals
- Use reference lines, error bars, and forecasting
- Detect outliers and anomalies
- Create and share scorecards and metrics



Resources

[Preparing for PL-300 - Visualize and Analyze the Data \(3 of 4\) | Microsoft Learn](#)

[Build Power BI visuals and reports - Training | Microsoft Learn](#)

[Model data with Power BI - Training | Microsoft Learn](#)

[Data Visualization in Power BI Course | DataCamp](#)

[Reports in Power BI Course | DataCamp](#)

[Distribute Power BI insights - Training | Microsoft Learn](#)





Deploy and maintain assets (15–20%)

Create and manage workspaces and assets

- Create and configure a workspace
- Assign workspace roles
- Configure and update a workspace app
- Publish, import, or update assets in a workspace
- Create dashboards
- Choose a distribution method
- Apply sensitivity labels to workspace content
- Configure subscriptions and data alerts
- Promote or certify Power BI content
- Manage global options for files

Manage datasets

- Identify when a gateway is required
- Configure a dataset scheduled refresh
- Configure row-level security group membership
- Provide access to datasets



Resources

Preparing for PL-300 - Visualize and Analyze the Data (3 of 4) | Microsoft Learn

Build Power BI visuals and reports - Training | Microsoft Learn

Model data with Power BI - Training | Microsoft Learn

Data Visualization in Power BI Course | DataCamp

Reports in Power BI Course | DataCamp

Distribute Power BI insights - Training | Microsoft Learn





Practice Questions

GitHub - jxareas/PL-300-Guide: Questions, Solutions & Labs of Microsoft's Official Power BI Certification.

PL-300 Exam – Free Actual Q&As, Page 1 | ExamTopics






Official PowerBi Documentation

<https://learn.microsoft.com/en-us/power-bi/>





WHY BOSSCODER?

-  **750+** Alumni placed at Top Product-based companies.
-  More than **136% hike** for every **2 out of 3** working professional.
-  Average package of **24LPA.**

The syllabus is most **up-to-date** and the list of problems provided covers all important topics.

Lavanya
 Meta



Course is very well **structured and streamlined** to crack any MAANG company

Rahul




[**EXPLORE MORE**](#)