

Microsoft Power BI Data Analyst – Flexible Training («PL300V»)

This PL-300 training consists of a maximum of 2 half-day sessions per week for a maximum of 4 weeks with integrated learning support. Click «Timetable» for the session plan at the bottom of the page where you select your desired date.

Duration: 3 days

Price: 2'550.–

Course documents: Official Microsoft Courseware and Microsoft Learn

Vendor code: PL-300

Content

This course is the new, renamed version of [DA-100: Analyzing Data with Microsoft Power BI](#); the course content and certification remains the same.

The content of this flexible training is derived from the exam «[PL-300: Microsoft Power BI Data Analyst](#)». Start preparing for the course on Microsoft Learn now and use the Learning Support if you have any questions. During the 3h instructor sessions you will work with the official Microsoft course material (more information under «Methodology & didactics»).

Module 1: Get Started with Microsoft Data Analytics

This module explores the different roles in the data space, outlines the important roles and responsibilities of a Data Analysts, and then explores the landscape of the Power BI portfolio.

Lessons

- Data Analytics and Microsoft
- Getting Started with Power BI

Lab: Getting Started

- Getting Started

Module 2: Prepare Data in Power BI

This module explores identifying and retrieving data from various data sources. You will also learn the options for connectivity and data storage, and understand the difference and performance implications of connecting directly to data vs. importing it.

Lessons

- Get data from various data sources
- Optimize performance
- Resolve data errors

Lab: Preparing Data in Power BI Desktop

- Prepare Data

Module 3: Clean, Transform, and Load Data in Power BI

This module teaches you the process of profiling and understanding the condition of the data. They will learn how to identify anomalies, look at the size and shape of their data, and perform the proper data cleaning and transforming steps to prepare the data for loading into the model.

Lessons

- Data shaping
- Enhance the data structure
- Data Profiling

Lab: Transforming and Loading Data

- Loading Data

Module 4: Design a Data Model in Power BI

This module teaches the fundamental concepts of designing and developing a data model for proper performance and scalability. This module will also help you understand and tackle many of the common data modeling issues, including relationships, security, and performance.

Lessons

- Introduction to data modeling
- Working with tables
- Dimensions and Hierarchies

Lab: Data Modeling in Power BI Desktop

- Create Model Relationships
- Configure Tables
- Review the model interface
- Create Quick Measures

Lab: Advanced Data Modeling in Power BI Desktop

- Configure many-to-many relationships
- Enforce row-level security

Module 5: Create Measures using DAX in Power BI

This module introduces you to the world of DAX and its true power for enhancing a model. You will learn about aggregations and the concepts of Measures, calculated columns and tables, and Time Intelligence functions to solve calculation and data analysis problems.

Lessons

- Introduction to DAX
- DAX context
- Advanced DAX

Lab: Introduction to DAX in Power BI Desktop

- Create calculated tables
- Create calculated columns
- Create measures

Lab: Advanced DAX in Power BI Desktop

- Use the CALCULATE() function to manipulate filter context
- use Time Intelligence functions

Module 6: Optimize Model Performance

In this module you are introduced to steps, processes, concepts, and data modeling best practices necessary to optimize a data model for enterprise-level performance.

Lessons

- Optimize the model for performance
- Optimize DirectQuery Models

- Create and manage Aggregations

Module 7: Create Reports

This module introduces you to the fundamental concepts and principles of designing and building a report, including selecting the correct visuals, designing a page layout, and applying basic but critical functionality. The important topic of designing for accessibility is also covered.

Lessons

- Design a report
- Enhance the report

Lab: Designing a report in Power BI

- Create a live connection in Power BI Desktop
- Design a report
- Configure visual fields and format properties

Lab: Enhancing Power BI reports with interaction and formatting

- Create and configure Sync Slicers
- Create a drillthrough page
- Apply conditional formatting
- Create and use Bookmarks

Module 8: Create Dashboards

In this module you will learn how to tell a compelling story through the use of dashboards and the different navigation tools available to provide navigation. You will be introduced to features and functionality and how to enhance dashboards for usability and insights.

Lessons

- Create a Dashboard
- Real-time Dashboards
- Enhance a Dashboard

Lab: Designing a report in Power BI Desktop - Part 1

- Create a Dashboard
- Pin visuals to a Dashboard
- Configure a Dashboard tile alert
- Use Q&A to create a dashboard tile

Module 9: Create Paginated Reports in Power BI

This module will teach you about paginated reports, including what they are how they fit into Power BI. You will then learn how to build and publish a report.

Lessons

- Paginated report overview
- Create Paginated reports

Lab: Creating a Paginated report

- Use Power BI Report Builder
- Design a multi-page report layout
- Define a data source
- Define a dataset
- Create a report parameter
- Export a report to PDF

Module 10: Perform Advanced Analytics

This module helps you apply additional features to enhance the report for analytical insights in the data, equipping you with the steps to use the report for actual data analysis. You will also perform advanced analytics using AI visuals on the report for even deeper and meaningful data insights.

Lessons

- Advanced Analytics
- Data Insights through AI visuals
- Lab : Data Analysis in Power BI Desktop
- Create animated scatter charts
- Use teh visual to forecast values
- Work with Decomposition Tree visual
- Work with the Key Influencers visual

Module 11: Create and Manage Workspaces

This module will introduce you to Workspaces, including how to create and manage them. You will also learn how to share content, including reports and dashboards, and then learn how to distribute an App.

Lessons

- Creating Workspaces
- Sharing and Managing Assets

Lab: Publishing and Sharing Power BI Content

- Map security principals to dataset roles
- Share a dashboard
- Publish an App

Module 12: Manage Datasets in Power BI

In this module you will learn the concepts of managing Power BI assets, including datasets and workspaces. You will also publish datasets to the Power BI service, then refresh and secure them.

Lessons

- Parameters
- Datasets

Module 13: Row-level security

This module teaches you the steps for implementing and configuring security in Power BI to secure Power BI assets.

Lessons

- Security in Power BI

Key Learnings

- Ingesting, cleaning, and transforming data
- Modelling data for performance and scalability
- Designing and creating reports for data analysis
- Applying and performing advanced report analytics
- Managing and sharing report assets
- Creating paginated reports in Power BI

Digicomp Flexible Learning Approach:

- **Training modality:** During a period of 4 weeks, 6–8 half-day (3h each) virtual live sessions with our Azure MCT experts will take place. The sessions are already planned and can be easily combined with the daily work routine. Between the sessions there is enough time to process the learned knowledge.
- **Detailed Session Plan:** Click «[Timetable](#)» at the bottom of the page where you select your desired date.

Target audience

This course is aimed at 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.

Certification

This flexible training prepares you for:

- **Exam:** «[PL-300: Microsoft Power BI Data Analyst](#)» for the
- **Certification:** «[Microsoft Certified: Data Analyst Associate](#)»

Further courses

- [Implementing a Lakehouse with Microsoft Fabric – Flexible Training \(«DP601V»\)](#)
- [Microsoft Fabric Analytics Engineer – Flexible Training \(«DP600V»\)](#)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-microsoft-technology/microsoft-azure/course-microsoft-power-bi-data-analyst-flexible-training-pl-300