

# DA-100: Analyzing Data with Power BI [100T00-A] training including Exam Voucher

## Group Training

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|--------------------|--|
| Training code      | CGADA100CE                             |
| Spoken Language    | English                                |
| Language Materials | English                                |
| Dayparts           | 8                                      |
| Price              | €2.100,00<br>excl. VAT No extra costs. |

## What is DA-100: Analyzing Data with Power BI [100T00-A] including Exam Voucher

As a subject matter expert, Data Analysts are responsible for designing and building scalable data models, cleaning and transforming data, and enabling advanced analytic capabilities that provide meaningful business value through easy-to-comprehend data visualizations. Data Analysts also collaborate with key stakeholders across verticals to deliver relevant insights based on identified business requirements.

We will discuss 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 also show how to access and process data from a range of data sources including both relational and non-relational data.

This course uses MOC (Microsoft Official Courseware) and will be given by an experienced MCT (Microsoft Certified Trainer).

See the below modules for more information:

### 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

## 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

## 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

## 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

## 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

## 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

#### 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

#### 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

#### 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

#### 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

#### 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

## Who should attend the DA-100: Analyzing Data with Power BI [100T00-A] including Exam Voucher

Data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. Also, for those who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises.

Also, you will receive a voucher to make the exam. Enlist today!

### Prerequisites

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

- 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.

### Objectives

After completing this course, you will be able to:

- Explore the different roles in data
- Identify the tasks that are performed by a data analyst
- Identify and retrieve data from different data sources
- Understand the connection methods and their performance implications
- Apply data shape transformations
- Enhance the structure of the data
- Understand the basics of data modeling
- Define relationships and their cardinality
- Understand and use DAX
- Create calculated tables and measures
- Work with Time Intelligence and Key Performance Indicators
- Understand the importance of variables
- Enhance the data model
- Optimize the storage model
- Select and add effective visualizations
- Add basic report functionality, report navigation and interactions
- Improve report performance
- Understand real-time dashboards
- Work with charts, tables and paginated reports
- Explore statistical summary

- Use AI visuals and advanced analytics custom visual
- Working with workspace
- Datasets and gateway connectivity
- Power BI security

## Exam information

- Exam duration (minutes): 180
- % extra time for non-native speakers: 0
- Number of exam questions: 40-60
- Minimum correct questions: 0,7
- Exam style: Multiple choice
- Open book: No

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