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# Data Visualization with Power BI Training - Intermediate

2 days (14 hours)

## Overview

Data visualization with Power BI allows you to create interactive and easy-to-read reports to better leverage business data.

Our Data Visualization with Power BI – Intermediate training will help you master the creation of interactive dashboards, filters, essential DAX calculations, and connecting to multiple data sources.

You will learn how to connect, transform, and organize your data, create dynamic reports, and apply best practices for visualization in Power BI.

By the end of the course, participants will be able to create reports and dashboards using DAX.

Like all our courses, this one will introduce you to **the latest stable version** of the technology and its new features.

## Objectives

- Create interactive dashboards.
- Apply filters and calculations.
- Connect to and transform data from multiple sources.

## Target Audience

- Analysts
- Data analysts

## Prerequisites

- Basic knowledge of SQL and Power BI

## Technical prerequisites

- A computer with at least 8 GB of RAM; 16 GB recommended
- 5 to 10 GB of available disk space
- Windows 10 or 11 to install Power BI Desktop locally
- On macOS or Linux: access to Power BI via a lab environment, DaaS, or Windows virtual machine
- A stable internet connection
- A modern browser; Edge or Chrome recommended for labs and Power BI Service

## Data Visualization with Power BI Training Program - Intermediate

[Day 1 - Morning]

### Structuring a Power BI project

- Review of the Power BI Desktop environment
- Understanding the Power BI report creation cycle
- Identifying available data sources
- Organizing useful tables and fields
- Preparing business reporting logic
- Hands-on workshop: Structuring your first Power BI project.

[Day 1 - Afternoon]

### Connect and transform data

- Connecting to Excel, CSV, and SQL database sources
- Cleaning data in Power Query
- Transforming columns and data types
- Filtering and removing unnecessary data
- Preparing data for visualization
- Hands-on workshop: Clean and transform multiple data sources.

[Day 2 - Morning]

## Creating interactive reports and dashboards

- Creating visualizations tailored to the data
- Using filters, segments, and interactions
- Layout and visual hierarchy
- Creating readable and actionable reports
- Best practices in data visualization
- Hands-on workshop: Building an interactive dashboard.

[Day 2 - Afternoon]

## Essential DAX calculations and reporting

- Creating simple DAX measures
- Using common aggregation functions
- Apply business calculations in a report
- Check results with filters
- Share and present a Power BI report
- Hands-on workshop: Finalize a report with filters, measures, and visualizations.

## Target Audience

This training is intended for both individuals and companies, large or small, seeking to train their teams in new advanced IT technologies or to acquire specific business knowledge or modern methods.

## Placement upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

## Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training program.