



## COURSE: BI Fundamentals

What is Microsoft business intelligence (BI), and how can you use it to benefit your organization? This class will help participants to understand the components of a business intelligence solution and get familiar with the Microsoft tools. Get

a good understanding of the components of a business intelligence solution in an enterprise and self service deployment, from simple to the more complex types of analyses, and get familiar with the Microsoft BI Data Platform on premise. The class will teach you the basics of a Traditional BI Solution, its components and how they relate together in an Enterprise Deployment. This training includes solid theoretical material and a lot of practical exercises.

### Summary

*Duration:* 5 days/ 40 hours

*Level:* 200\*

*Delivery method:* In class

*Language:* English/Bulgarian

\* The difficulty level is consistent with the widely accepted scale of technical difficulty of training on Microsoft Corp

### AUDIENCE:

- Data Analysts with an interest to become more familiar with a BI Solutions
- BI Developers in the beginning of their carrier path
- DB Developers with an interest to get experience in BI Solutions
- Data Platform Architect who need knowledge of Microsoft BI Data Platform

### AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Understand the components of a BI solution
- Create a simple dimensional model for a data warehouse on the provided case study
- Use data warehousing components of the SQL Server Database Engine
- Understand the concepts of extract-transform-load procedure with SQL Server Integration Services
- Author reports with SQL Server Reporting Services
- Define simple cubes with SQL Server Analysis Services Tabular
- Find and load external data with Power Query
- Use SQL Server Analysis Services for on premise data mining
- Perform advanced analytics, use PBI for creating dashboards and reports

### TOPICS:

**Module 1.** Introduction to BI and MS BI Data Platform

**Module 2.** Traditional SQL Server data warehousing

**Module 3.** Designing the star and snowflake schemas

**Module 4.** The concepts and examples of an Extract-transform-load (ETL) with SQL Server Integration Services (SSIS)

**Module 5.** SSAS Data Models

**Module 6.** Introduction to PBI

**Module 7.** Designing Dashboards and Reports in PBI

**Module 8.** Reporting with SQL Server Reporting Services (SSRS)

**Module 9.** Advanced Analytics on the data warehouse data

**Module 10:** Introduction to Cloud Datawarehouse Concepts