

## Data access with .NET 8 («EFCore»)

Entity Framework Core is a completely new development of the well-known Entity Framework – open-source and platform-independent. The new OR mapper is more powerful and has numerous new features compared to the previous version.

**Duration:** 2 days

**Price:** 1'600.–

### Content

1. Introduction and Overview
2. Create the Model
  - Entities
  - Data context
  - Modeling of the tables
  - Fluent API
  - Relationships between data
3. Query Database
  - Database connection
  - Selection of the provider
  - Database queries
  - Eager vs. Lazy Loading
  - Filtering and sorting
4. Storage of Data
  - Add, modify, delete
  - Concurrency
5. Database Migration
6. Database Model Refinement
  - Database index, default values
  - Owned Types
  - Query Types
  - Stored Procedures and Table-valued Functions
7. Further Features
  - Table Splitting
  - Value Converter
  - Global Query Filter
  - Data Seeding
  - Direct SQL
  - Transactions
8. Performance Optimization
9. Tools and Extensions
10. Working with NoSQL databases

### Key Learnings

- Using EF Core to efficiently implement your data access layer
- Knowledge of numerous tools to work productively

## Target audience

This course is aimed at .NET developers who want to efficiently access any database from their web or desktop application.

## Requirements

Knowledge of programming with C# as taught in the [CFE](#) course.

- [Modern Web Development with ASP.NET Blazor \(«ASPBLA»\)](#)
- [ASP.NET Core Advanced \(«MVC»\)](#)

## Further courses

- [Web Developer Associate \(«WEBDA»\)](#)
- [Windows Presentation Foundation and XAML \(«WPF»\)](#)
- [Basics of web development with ASP.NET Core \(«CWG»\)](#)

## Any questions?

We are happy to advise you on +41 44 447 21 21 or [info@digicomp.ch](mailto:info@digicomp.ch). You can find detailed information about dates on [www.digicomp.ch/courses-software-engineering/programming/frameworks-libraries/course-data-access-with-net-8](http://www.digicomp.ch/courses-software-engineering/programming/frameworks-libraries/course-data-access-with-net-8)