

ASP.NET Core Fundamentals

Learn the fundamental principles and concepts of ASP.NET Core, a powerful framework for building web applications.

Category: Programming · Duration: 3 days

WHO IT IS FOR

- .NET developers
- Developers and DBAs who work with data every day
- Beginners welcome: no prior experience required

In this comprehensive training program, you will gain a deep understanding of ASP.NET Core and its key features. Through hands-on exercises and real-world examples, you will learn how to build modern web applications using this powerful framework. By the end of the course, you will be able to develop robust and scalable web applications using ASP.NET Core.

Prerequisites

Basic knowledge of C# programming and web development concepts.

Syllabus

- Introduction to ASP.NET Core
- Setting up the development environment
- Building your first ASP.NET Core application
- Understanding MVC architecture
- Controllers and routing
- Views and Razor syntax
- Working with models and data
- Validating user input
- Authentication and authorization
- Deploying ASP.NET Core applications
- Using Entity Framework Core for data access
- Implementing RESTful APIs
- Testing and debugging ASP.NET Core applications
- Performance optimization techniques

- Securing ASP.NET Core applications
- Designing scalable and maintainable applications
- Working with client-side frameworks (Angular, React, etc.)
- Caching and performance optimization
- Continuous Integration and Deployment (CI/CD)
- Error handling and logging
- Best practices and advanced topics