

Build .NET applications with C#

Duration 1 day (8 hours)

.NET is a free, cross-platform, open source developer platform for building many different types of applications. With .NET, you can use multiple languages, editors, and libraries to build for web, mobile, desktop, games, and IoT.

Write your first C# code

- Introduction
- Exercise - Write your first code
- Learn how it works
- Complete the challenge

Introduction to .NET

- Introduction
- What is .NET?
- How to use .NET
- Build your first app by using Try .NET
- When to use .NET

Create a new .NET project and work with dependencies

- Introduction
- Add packages to your .NET project
- Exercise - Install packages
- Manage dependency updates in your .NET project
- Exercise - Manage dependency updates in your .NET project

Interactively debug .NET apps with the Visual Studio Code debugger

- Introduction
- What's a debugger?
- Understand the .NET debugger in Visual Studio Code
- Exercise - Debug with Visual Studio Code
- Logging and tracing in .NET applications
- Exercise - Logging and tracing

Work with files and directories in a .NET app

- Introduction
- Work with the file system
- Exercise - Work with the file system
- Work with file paths in .NET
- Exercise - Work with paths
- Create files and directories
- Exercise - Create files and directories
- Read and write to files
- Exercise - Read and write to files

Create a web API with ASP.NET Core controllers

- Introduction
- REST in ASP.NET Core
- Exercise - Create a web API project
- ASP.NET Core Web API Controllers
- Exercise - Add a data store
- Exercise - Add a controller
- CRUD actions in ASP.NET Core
- Exercise - Implement CRUD operations