

KOENIG SOLUTIONS • COURSE OUTLINE

Build .NET Applications with C#

Learn to build .NET applications with C#, from first code and debugging to file handling and Web APIs.

1 Day

8 HOURS

6

MODULES

24

TOPICS

13

HANDS-ON EXERCISES

COURSE OVERVIEW

.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.

WHO THIS COURSE IS FOR

C# Developers

Software Developers

.NET Developers

Web API Developers

Backend Developers

LEARNING OBJECTIVES

- Write and run your first C# code
- Explain what .NET is and when to use it
- Create a new .NET project and manage dependencies
- Debug .NET applications with the Visual Studio Code debugger
- Implement logging and tracing in .NET applications
- Work with files, directories and file paths in .NET
- Build a Web API using ASP.NET Core controllers
- Implement CRUD actions in ASP.NET Core

6 Modules, 24 Topics

01

Exercise

Write Your First C# Code

TOPICS

Introduction · Learn how it works · Complete the challenge

02

Introduction to .NET

TOPICS

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

03

2 Exercises

Create a New .NET Project and Work with Dependencies

TOPICS

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

04

2 Exercises

Interactively Debug .NET Apps with the Visual Studio Code Debugger

TOPICS

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

05

4 Exercises

Work with Files and Directories in a .NET App

TOPICS

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

06

4 Exercises

Create a Web API with ASP.NET Core Controllers

TOPICS

Introduction · REST in ASP.NET Core · ASP.NET Core Web API Controllers · CRUD actions in ASP.NET Core

Practise What You Learn

#	MODULE	ACTIVITY
01	Write Your First C# Code	Write your first code
03	Create a New .NET Project and Work with Dependencies	■ Install packages ■ Manage dependency updates in your .NET project
04	Interactively Debug .NET Apps with the Visual Studio Code Debugger	■ Debug with Visual Studio Code ■ Logging and tracing
05	Work with Files and Directories in a .NET App	■ Work with the file system ■ Work with paths ■ Create files and directories ■ Read and write to files
06	Create a Web API with ASP.NET Core Controllers	■ Create a web API project ■ Add a data store ■ Add a controller ■ Implement CRUD operations

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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