# 55340 Developing ASP.NET Core Web Applications

**Category:** Software Development & Programming | **Vendor:** Microsoft

**Duration:** 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

In this 5-day course, professional web developers will learn to develop advanced ASP.NET Core applications using .NET tools and technologies. The focus will be on coding activities that enhance the performance and scalability of the Web site application.

## About This Course

In this 5-day course, professional web developers will learn to develop advanced ASP.NET Core applications using .NET tools and technologies. The focus will be on coding activities that enhance the performance and scalability of the Web site application.

## Who Should Attend

This course is intended for professional web developers who use Microsoft Visual Studio in an individual-based or team-based, small-sized to large development environment. Candidates for this course are interested in developing advanced web applications and want to manage the rendered HTML comprehensively. They want to create websites that separate the user interface, data access, and application logic.

## Prerequisites & Entry Requirements

**General Prerequisites:**

Experience with Visual Studio. Experience with C# programming, and concepts such as Lambda expressions, LINQ, and anonymous types. Experience in using the .NET. Experience with HTML, CSS and JavaScript. Experience with querying and manipulating data with ADO.NET. Knowledge of XML and JSON data structures.

## Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

Describe the Microsoft Web Technologies stack and select an appropriate technology to use to develop any given application. Design the architecture and implementation of a web application that will meet a set of functional requirements, user interface requirements, and address business models. Configure the pipeline of ASP.NET Core web applications using middleware, and leverage dependency injection across applications. Develop a web application that uses the ASP.NET Core routing engine to present friendly URLs and a logical navigation hierarchy to users. Create Views in an application that display and edit data and interact with Models and Controllers. Connect an ASP.NET Core application to a database using Entity Framework Core. Implement a consistent look and feel across an entire web application. Write JavaScript code that runs on the client-side and utilizes the jQuery script library to optimize the responsiveness of an web application. Add client side packages and configure Task Runners. Run unit tests and debugging tools against a web application in Visual Studio 2022. Write an application that authenticates and authorizes users to access content securely using Identity. Build an application that resists malicious attacks. Use caching to accelerate responses to user requests. Use SignalR to enable two-way communication between client and server. Describe what a Web API is and why developers might add a Web API to an application. Describe how to package and deploy an ASP.NET Core web application from a development computer to a web server.

## Detailed Course Outline

### Module 1: Exploring ASP.NET Core

- Introducing of Microsoft Web Technologies
- Getting Started with Razor Pages in ASP.NET Core
- Introducing ASP.NET Core MVC

### Module 2: Designing ASP.NET Core MVC Web Applications

- Planning in the Project Design Phase
- Designing Models, Controllers and Views

### Module 3: Configure Middleware and Services in ASP.NET Core

- Configuring Middlewares
- Configuring Services

### Module 4: Developing Controllers

- Writing Controllers and Actions
- Configuring Routes
- Writing Action Filters

### Module 5: Developing Views

- Creating Views with Razor Syntax
- Using HTML Helpers and Tag Helpers
- Reusing Code in Views

### Module 6: Developing Models

- Creating MVC Models
- Working with Forms
- Validating User Input

### Module 7: Using Entity Framework Core in ASP.NET Core

- Introduction to Entity Framework Core
- Working with Entity Framework Core
- Use Entity Framework Core to connect to Microsoft SQL Server

### Module 8: Using Layouts, CSS and JavaScript in ASP.NET Core

- Using Layouts
- Using CSS and JavaScript
- Using JavaScript Libraries

### Module 9: Client-Side Development

- Applying Styles and Responsive Design
- Using Task Runners
- Looking at ASP.NET Core Blazor

### Module 10: Testing and Troubleshooting

- Testing ASP.NET Core Applications
- Implementing an Exception Handling Strategy
- Logging ASP.NET Core Applications

### Module 11: Managing Security

- Authentication in ASP.NET Core
- Authorization in ASP.NET Core
- Defending from Common Attack

### Module 12: Performance and Communication Implementing a Caching Strategy

- Managing State
- Supporting Two-way Communication

### Module 13: Implementing Web APIs

- Introducing Web APIs
- Developing a Web API
- Calling a Web API

### Module 14: Hosting and Deployment

- Hosting and Deploying On-premises
- Deploying to Microsoft Azure
- Looking at Microsoft Azure Fundamentals

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## Upcoming Schedule

**Available training dates for 55340 Developing ASP.NET Core Web Applications:**

| Start Date | End Date | Location | Delivery | Price |
|---|---|---|---|---|
| 11 Jan 2027 | 15 Jan 2027 | Online | Virtual | €2,995.00 |

## Additional Course Details

Nexus Humans 55340 Developing ASP.NET Core Web Applications training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the 55340 Developing ASP.NET Core Web Applications course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

### Q: What delivery options are available for 55340 Developing ASP.NET Core Web Applications?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: How many CPD hours does this course provide?

The 5-day 55340 Developing ASP.NET Core Web Applications course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the 55340 Developing ASP.NET Core Web Applications training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for 55340 Developing ASP.NET Core Web Applications?

Yes, we provide corporate training, dedicated training, and closed classes for 55340 Developing ASP.NET Core Web Applications. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: Why choose Nexus Human for 55340 Developing ASP.NET Core Web Applications?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your 55340 Developing ASP.NET Core Web Applications training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

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