

## Beginning ASP.NET

**Duration: 3 Days    Course Code: LO035406    Delivery Method: Company Event**

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### Overview:

Building robust web applications is the need of the hour in the web world. With ASP.NET Core MVC (that makes use of the Model-View-Controller architecture), a web developer can meet this.

In today's age, it's important for a developer to possess the ability to separate the programming and business logic. There are few courses available on ASP.NET Core 2 that helps in imparting this ability to a developer.

#### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

This course is aimed at developers who want to build web applications using ASP.NET Core or developers who want to make a career building web applications using Microsoft technology.

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### Objectives:

- As a tried and tested way to build cross-platform applications, this course will take you through the implementation of the core architecture of model, view, and controller.
  - Build your own shopping cart in an iterative fashion and gain all the skills to develop real-world applications with ASP.NET Core 2.
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## Content:

### Lesson 1: Setting the Stage

- Introduction to Web Applications
- Creating ASP.NET Core application

### Lesson 2: Controllers

- Role of the Controller in ASP.NET MVC Applications
- Introduction to Routing
- Our First Controller
- Implementing our own IActionResult
- Adding Views
- Adding Models
- Passing Data from the Controller to the View
- Filters
- Writing a Custom Filter

### Lesson 3: Views

- The View Engine and the Razor View Engine
- Working with Layout
- Generating HTML
- Partial View
- View Components
- Tag Helpers

### Lesson 4: Models

- Introduction to Models
- Model Binding
- The Entity Framework
- Using the Entity Framework in ASP.NET MVC applications
- Database Migration

### Lesson 5: Validation

- Introduction to Validation
- Client-Side and Server-Side Validation
- Server-side Validation
- Client-side Validation
- Implementation

### Lesson 6: Routing

- Convention-Based Routing
- Attribute-Based Routing
- Route Attribute at the Controller Level
- Passing Routing Values in HTTP Action Verbs in the Controller
- Route Constraints

### Lesson 7: Rest Buy

- Designing Rest Buy
- Creating the Entities for the Application
- Creating EF Context and Migrations

### Lesson 8: Adding Features, Testing, and Deployment

- Adding the Registration Feature
- Creating a Unit Test
- Upgrading Our Application to Bootstrap 4
- Deploying Rest Buy to Azure

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

[info@globalknowledge.co.uk](mailto:info@globalknowledge.co.uk)

[www.globalknowledge.com/en-gb/](http://www.globalknowledge.com/en-gb/)

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK