C# Intermediate / Developing ASP.Net Core MVC Web Applications (20486)

Fast Track to C# for OO Developers | Core Skills and Best Practices Required to Create Windows Applications using Visual C#

Course Snapshot

- **Course:** TTCN20486: Developing ASP.Net Core MVC Web Applications (Latest Editions) (TT20483)
- **Duration:** 5 days
- **Audience:** This course is intended for experienced developers who already have programming experience in C# and understand the concepts of object-oriented programming.
- **Hands-on Learning:** This course is approximately 50% hands-on lab to lecture ratio, combining engaging expert lessons, demos and group discussions with real-world, skills-focused machine-based labs and exercises. Student machines are required.
- **Delivery Options**: This course is available for **onsite private classroom presentation**, **live online virtual presentation**, or can be presented in a **blended learning format**. Please also ask about our **Self-Paced** / **Video** / **QuickSkills** or **Mini-Camp** / **Short Course** flexible delivery options.
- **Public Schedule**: This course has active dates on our live-online open enrollment **Public Schedule**.
- **Customizable**: This course agenda, topics and labs can be further adjusted to target your specific training skills objectives, tools and learning goals. Please ask for details.

Overview

C# Web Developer / Developing ASP.Net Core MVC Web Applications is an intensive, hands-on training course, essential for experienced developers seeking instruction in creating web applications in C# & .Net Core. Throughout the course web developers will learn to develop advanced ASP.NET Core MVC applications using .NET Core tools and technologies. The focus will be on coding activities that enhance the performance and scalability of the Web site application

This independent course aligns with the topics and skills in Microsoft Official Curriculum (MOC) course 20486.

Learning Objectives

Our engaging instructors and mentors are highly experienced practitioners who bring years of current "on-the-job" experience into every classroom. Working in a hands-on learning environment, guided by our expert team, attendees will learn 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 MVC application.
- Add Controllers to an MVC Application to manage user interaction, update models, and select and return Views.
- 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 MVC application that display and edit data and interact with Models and Controllers.
- Create MVC Models and write code that implements business logic within Model methods, properties, and events.
- Connect an ASP.NET Core application to a database using Entity Framework Core.
- Implement a consistent look and feel across an entire MVC web application.
- Write JavaScript code that runs on the client-side and utilizes the jQuery script library to optimize the responsiveness of an MVC web application.
- Add client side packages and configure Task Runners.
- Run unit tests and debugging tools against a web application in Visual Studio.
- Write an MVC application that authenticates and authorizes users to access content securely using Identity.
- Build an MVC 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 MVC web application from a development computer to a web server.

Need different skills or topics? If your team requires different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional C#, .Net Core and Visual Studio application development, web development, SOLID development, test driven development, .Net Secure coding, services and other related topics that may be blended with this course for a track that best suits your needs. Please inquire for details.

Audience & Pre-Requisites

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.

Students should have incoming experience with:
- Visual Studio 2019 (or later).
- C# programming, and concepts such as Lambda expressions, LINQ, and anonymous types.
- Using the .NET Framework.
- HTML, CSS and JavaScript.
- Querying and manipulating data with ADO.NET.
- Basic XML and JSON data structures.

Next Steps: We offer a wide variety of follow on courses for .Net development, web development, SOLID design, .Net services, .Net secure coding and others. Please see our **Microsoft Developer Training Suite** list of courses for recommended next steps.

Enhanced Learning Services: Please also ask about our **Pre-Training Class OnRamp & Prep / Primer** offerings, **Skills Gap Assessment Services**, **Case Studies**, **Knowledge Check Quizzes**, **Skills Immersion Programs & Camps**, **Collaborative Mentoring Services** and **Extended Learning Support** & **Post Training** services.

Course Topics / Agenda

Please note that course agenda, topics and labs are subject to adjust during live delivery in response to student skill level, interests and participation.

Module 1: Exploring ASP.NET Core MVC
Microsoft ASP.NET Core MVC and the other web technologies of the ASP.NET Core can help you create and host dynamic, powerful, and extensible web applications. ASP.NET Core, of which ASP.NET Core MVC is part, is an open-source, cross-platform framework that allows you to build web applications. You can develop and run ASP.NET Core web applications on Windows, macOS, Linux, or any other platform that supports it.
ASP.NET Core MVC supports agile, test-driven development cycle. It also allows you to use the latest HTML standard and Front-End frameworks such as Angular, React, and more.

Lessons
- Overview of Microsoft Web Technologies
- Overview of ASP.NET 4.x
- Introduction to ASP.NET Core MVC
- Lab : Exploring ASP.NET Core MVC

After completing this course, students will be able to:
- Understand the variety of technologies available in the Microsoft web stack.
- Describe the different programming models available for developers in ASP.NET.

- Choose between ASP.NET Core and ASP.NET 4.x.
- Describe the role of ASP.NET Core MVC in the web technologies stack, and how to use ASP.NET Core MVC to build web applications.
- Distinguish between MVC models, MVC controllers, and MVC views.

Module 2: Designing ASP.NET Core MVC Web Applications
Microsoft ASP.NET Core MVC is a programming model that you can use to create powerful and complex web applications. However, all complex development projects, and large projects in particular, can be challenging and intricate to fully understand. Without a complete understanding of the purposes of a project, you cannot develop an effective solution to the customer's problem. You need to know how to identify a set of business needs and plan the Model-View-Controller (MVC) web application to meet those needs. The project plan that you create assures stakeholders that you understand their requirements and communicates the functionality of the web application, its user interface, structure, and data storage to the developers. By writing a detailed and accurate project plan, you can ensure that the powerful features of MVC are used effectively to solve the customer's business problems.

Lessons
- Planning in the Project Design Phase
- Designing Models, Controllers and Views
- Lab : Designing ASP.NET Core MVC Web Applications

After completing this module, students will be able to:
- Plan the overall architecture of an ASP.NET Core MVC web application and consider aspects such as state management.
- Plan the models, controllers, and views that are required to implement a given set of functional requirements.

Module 3: Configure Middlewares and Services in ASP.NET Core
ASP.NET Core is a framework that allows us to build many different kinds of applications. In this module, you will learn how to leverage the ASP.NET Core framework to handle requests and responses via existing, and custom middleware, and how to configure services for use in middleware and throughout other parts of the application, such as controllers. A middleware is a segment of code that can be used as part of the request and response pipeline that allows us to handle them according to any relevant parameter. This potentially allows multiple separate requests to be handled in a completely different fashion and receive separate responses. Services are classes that expose functionality which you can later use throughout different parts of the application, without having to keep track of scope manually in each individual location and instantiate any dependencies. This is done by using Dependency Injection. Dependency Injection is a technique used by ASP.NET Core that allows us to add dependencies into the code without having to worry about instantiating objects, keeping them in memory, or passing along required dependencies. This allows the application to become more flexible and to reduce potential points of failure whenever you change a service.

Lessons
- Configuring Middlewares
- Configuring Services
- Lab : Configuring Middleware and Services in ASP.NET Core

After completing this module, students will be able to:
- Use existing middleware to set up an ASP.NET Core application.
- Create your own middleware and use it to define custom behavior.
- Understand the basic principles behind Dependency Injection, and how it is used in ASP.NET Core.
- Know how to create a custom service, configure its scope, and inject it to both middleware and ASP.NET Core MVC controllers.

Module 4: Developing Controllers
ASP.NET Core MVC is a framework for building web applications by using the Model-View-Controller (MVC) architectural pattern. The controller is essentially responsible for processing a web request by interacting with the model and then passing the results to the view. The model represents the business layer, sometimes referred to as the domain, and may include data objects, application logic, and business rules. The view uses the data that it receives from the controller to produce the HTML or other output that is sent back to the browser. In this module, you will learn how to develop controllers. Controllers are central to MVC applications. Understanding how controllers work is crucial to being able to create the appropriate model objects, manipulate them, and pass them to the appropriate views. A controller is a class. It contains several methods. These methods are called actions. When an MVC application receives a request, it finds which controller and action should handle the request. It determines this by using Uniform Resource Locator (URL) routing. URL routing is another very important concept necessary for developing MVC applications. The ASP.NET Core MVC framework includes a flexible URL routing system that enables you to define URL mapping rules within your applications. To maximize the reuse of code in controllers, it is important to know how to write action filters. You can use action filters to run code before or after every action in your web application, on every action in a controller, or on other combinations of controller actions.

Lessons
- Writing Controllers and Actions
- Configuring Routes
- Writing Action Filters
- Lab : Developing Controllers

After completing this module, students will be able to:
- Add a controller to a web application that responds to user actions that are specified in the project design.
- Add routes to the ASP.NET Core routing engine and ensure that URLs are user-friendly in an MVC web application.
- Write code in action filters that runs before or after a controller action.

Module 5: Developing Views
Views are one of the three major components of the Model-View-Controller (MVC) programming model. You can define the user interface for your web application by creating views. A view is a combination of HTML markup and C# code that runs on a web server. Therefore, to create a view, you need to know how to write the HTML markup and C# code and use the various helper classes that are built into MVC. You also need to know how to create partial views and view components, which render sections of HTML that can be

reused in your web application.

Lessons
- Creating Views with Razor Syntax
- Using HTML Helpers and Tag Helpers
- Reusing Code in Views
- Lab : Developing Views

After completing this module, students will be able to:
- Create an MVC view and add Razor markup to it to display data to users.
- Use HTML helpers and tag helpers in a view.Reuse Razor markup in multiple locations throughout an application.

Module 6: Developing Models
Most web applications interact with various types of data or objects. An e-commerce application, for example, manages products, shopping carts, customers, and orders. A social networking application might help manage users, status updates, comments, photos, and videos. A blog is used to manage blog entries, comments, categories, and tags. When you write a Model-View-Controller (MVC) web application, you create an MVC model to model the data for your web application. Within this model, you create a model class for each type of object. The model class describes the properties of each type of object and can include business logic that matches business processes. Therefore, the model is a fundamental building-block in an MVC application. In this module, you will learn how to create the code for models.

Lessons
- Creating MVC Models
- Working with Forms
- Validate MVC Application
- Lab : Developing Models

After completing this module, students will be able to:
- Add a model to an MVC application and write code in it to implement the business logic.
- Use display and edit data annotations.
- Validate user input with data annotations.

Module 7: Using Entity Framework Core in ASP.NET Core
Web applications often use information and they usually require a data store for that information. By rendering webpages that use data from a data store, you can create a web application that changes continually in response to user input, administrative actions, and publishing events. The data store is usually a database, but other types of data stores are occasionally used. In Model-View-Controller (MVC) applications, you can create a model that implements data access logic and business logic. Alternatively, you can separate business logic from data access logic by using a repository. A repository is a class that a controller can call to read data from a data store and to write data to a data store.

When you write an ASP.NET application you can use the Entity Framework Core (EF Core) and Language Integrated Query (LINQ) technologies, which make data access code very quick to write and simple to understand. In this module, you will see how to build a database-driven website in MVC.

Lessons
- Introduction to Entity Framework Core
- Working with Entity Framework Core
- Use Entity Framework Core to connect to Microsoft SQL Server
- Lab : Using Entity Framework **Core in ASP.NET Core**

After completing this module, students will be able to:
- Connect an application to a database to access and store data.
- Explain EF Core.
- Work with Entity Framework Core.
- Use EF Core to connect to a database including Microsoft SQL Server.

Module 8: Using Layouts, CSS and JavaScript in ASP.NET Core MVC
While building web applications, you should apply a consistent look and feel to the application. You should include consistent header and footer sections in all the views. Microsoft ASP.NET Core MVC includes features such as cascading style sheets (CSS) styles and layouts that enhance the appearance and usability of your web application. In ASP.NET Core MVC, you can create interactive HTML elements by using JavaScript. You need to know how to use JavaScript in your web application. To simplify adding JavaScript to your web application, you need to know how to use libraries such as jQuery.

Lessons
- Using Layouts
- Using CSS and JavaScript
- Using jQuery
- Lab : Using Layouts, CSS and JavaScript in ASP.NET Core

After completing this module, students will be able to:
- Apply a consistent layout to ASP.NET Core MVC applications.
- Add JavaScript code to your web application.
- Use the jQuery library in your web application.

Module 9: Client-Side Development
When creating an application, it is important to know how to develop both client-side and server-side of the application. In this module, you are going to learn client-side tools that will allow you to create extensive web applications on any scale. These tools are based on the topics covered in Module 8, "Using Layouts, CSS and JavaScript in ASP.NET Core MVC". In this module, you are going to learn how to use the Bootstrap

framework to style your web application. Then you are going to learn how to use Sass and Less, two common Cascading Style Sheets (CSS) preprocessors that add features to CSS, such as variables, nested rules, and functions. These greatly improve the maintainability of complex web applications. Next, you will learn how to set up task runners such as Grunt and gulp and how to use them to compile Sass files during the Microsoft Visual Studio build. You will learn how to use the gulp task runner to perform bundling and minification of CSS and JavaScript files and how to set up a watcher task to compile Sass files as you write your code, without the need to rebuild the solution. Finally, you will learn responsive design tools that allow you to customize your web application's display based on the capabilities and specifications of a web browser or a device. You will learn to write CSS media queries, how to use the Bootstrap responsive grid system, and how to apply the CSS flexbox layout to your views.

Lessons
- Applying Styles
- Using Task Runners
- Responsive design
- Lab : Client-Side Development

After completing this module, students will be able to:
- Use Bootstrap, Sass and Less in a Microsoft ASP.NET Core application.
- Use task runners in an ASP.NET Core application.
- Ensure that a web application displays correctly on devices with different screen sizes.

Module 10: Testing and Troubleshooting
Software systems such as web applications are complex and require multiple components, which are often written by different developers, to work together. Incorrect assumptions, inaccurate understanding, coding errors, and many other sources can create bugs that result in exceptions or unexpected behavior. To improve the quality of your web application and create a satisfying user experience, you must identify bugs from any source and eliminate them. Traditionally, testers perform most of the testing at the end of a development project. However, it has recently become widely accepted that testing throughout the project life cycle improves quality and ensures that there are no bugs in production software. You need to understand how to run tests on small components of your web application to ensure that they function as expected before you assemble them into a complete web application. It is also important that you know how to handle exceptions while they occur. While an application is running, you may encounter unexpected occurrences. It is important that you manage your exceptions correctly and provide a good user feedback while avoiding leaking information about the application structure. Finally, by using logs throughout the application, you can monitor user activities that might lead to unexpected issues and then

you can find solutions to bugs, which you normally would be unsure how to reproduce, by following flows which occurred on the production environment and finding additional errors.

Lessons
- Testing MVC Applications
- Implementing an Exception Handling Strategy
- Logging MVC Applications
- Lab : Testing and troubleshooting

After completing this module, students will be able to:
- Run unit tests against the Model–View–Controller (MVC) components, such as model classes and controllers, and locate potential bugs.
- Build a Microsoft ASP.NET Core MVC application that handles exceptions smoothly and robustly.
- Run logging providers that benefit your applications and run them by using a common logging API.

Module 11: Managing Security
Since web applications are normally targeted towards users utilizing only a browser to use the application, there are likely to be far more users than in the case of installed applications. However, the open nature of a web application means security must always be at the forefront of your mind when building them. As part of security, you must decide which users can perform what actions, all while protecting users and your application from malicious third parties with possible access to your application. Authentication is the act of utilizing several parameters to make sure that a user is who they claim to be. By implementing authentication, you can ascertain who a user is and provide them with appropriate content while utilizing your applications. Authorization is the process where an already authenticated user in the application can be granted access to specific actions or resources. By utilizing authorization, you can prevent users from accessing sensitive material not intended from them or from performing actions which they should not be able to. Finally, at some point in its lifespan, your applications may come under attack by malicious users. These can vary in means and intent, but the cost of being undefended can be great. You may lose potential users who are affected, valuable data could be erroneously changed, and in the worst cases the entire application may become unusable. Solutions to some of the most popular attacks will be reviewed in this module.

Lessons
- Authentication in ASP.NET Core
- Authorization in ASP.NET Core
- Defending from Attacks
- Lab : Managing Security

After completing this module, students will be able to:
- Add basic authentication to your application.

- Configure Microsoft ASP.NET Core Identity.
- Add basic authorization to your application.
- Utilize several different authorization approaches.
- Know how security exploits work and how to better defend against them.

Module 12: Performance and Communication
Modern web applications require complex interactions with users. Users will often request a lot of data in a small time-frame, while also expecting relevant data as soon as it comes online. This can easily cause a significant amount of load on an unprepared server, resulting in unnecessarily complex or repeated operations and a heavy load on your server. Fortunately, there are multiple ways to reduce the load. Caching allows you to store commonly repeated requests, preventing the need to perform the same logic repeatedly. By using caching, you can reuse data that has already been loaded and present it to the user. This provides the user with a fast response time and reduces system resources used in conducting the logic for the action. State meanwhile allows achieving a state of consistency between different requests. By utilizing various forms of state management, you can transform the normally stateless web experience into one that is custom tailored to individual clients, with different users enjoying a separate and relevant experience in the same application. Finally, SignalR is a framework that allows the abstraction of several different communication protocols into an easy to use API, which allows you to easily create a single set of tools on the server and client to facilitate two-way communications. This allows you to focus on the logic you wish to implement while allowing you to not have to cater to specific browsers.

Lessons
- Implementing a Caching Strategy
- Managing State
- Two-way communication
- Lab : Performance and Communication

After completing this module, students will be able to:
- Implement caching in a Microsoft ASP.NET Core application.
- Use state management technologies to improve the client experience, by providing a consistent experience for the user.
- Implement two-way communication by using SignalR, allowing the server to notify the client when important events occur.

Module 13: Implementing Web APIs
Most web applications require integration with external systems such as mobile applications. You need to know how to use Web APIs to promote application interaction with external systems. You can use the Web API to implement Representational State Transfer (REST) services in your

application. REST services help reduce application overhead and limit the data that is transmitted between client and server systems. You need to know how to call a Web API by using server-side code and jQuery code to effectively implement REST-style Web APIs in your application.

Lessons
- Introducing Web APIs
- Developing a Web API
- Calling a Web API
- Lab : Implementing Web APIs

After completing this module, students will be able to:
- Create services by using ASP.NET Core Web API.
- Call a Web API from server-side code and jQuery.

Module 14: Hosting and Deployment
ASP.NET Core MVC applications are designed to provide a service to multiple users simultaneously while only requiring the server to be installed, and the clients to use browsers to access it. This results in highly desirable applications which do not rely on the user installing dedicated software, and ensuring it is accessible by clients on a wide variety of machines. In order to setup an ASP.NET Core application for a production environment, you will need to compile your code and compress it, and then set it up and running on a dedicated server. Hosting involves using a dedicated server to contain the compiled application and serve it to users as a web-based service. There are many different technologies which can be used to host your application and you should choose one that is appropriate for your requirements. Deployment is the process where the project code is compiled and then transferred to the hosting server in a way that functions within the requirements of the hosting environment. Microsoft Azure is a cloud service provided by Microsoft. It can be used to host ASP.NET Core applications, and is a popular tool in the cloud technology market. It provides convenient Web Application related services at multiple billing options according to requirements.

Lessons
- On-premise hosting and deployment
- Deployment to Microsoft Azure
- Microsoft Azure Fundamentals
- Lab : Hosting and Deployment

After completing this module, students will be able to:
- Host and Deploy an ASP.NET Core MVC application on IIS.
- Host and Deploy an ASP.NET Core MVC application on Microsoft Azure.
- Be able to utilize services offered by Microsoft Azure to improve the capabilities of your web applications.

Module 15 Accessing Remote Data
In this module, you will learn how to use the request and

response classes in the System.Net namespace to directly manipulate remote data sources. You will also learn how to use Windows Communication Foundation (WCF) Data Services to expose and consume an entity data model (EDM) over the web.

Lessons
- Accessing Data Across the Web
- Accessing Data by Using OData Connected Services
- Lab : Retrieving and Modifying Grade Data Remotely

After completing this module, you will be able to:
- Send data to and receive data from web services and other remote data sources.
- Access data by using WCF Data Services.

Module 16: Designing the User Interface for a Graphical Application
In this module, you will learn how to use Extensible Application Markup Language (XAML) and Windows Presentation Foundation (WPF) to create engaging UIs.

Lessons
- Using XAML to Design a User Interface
- Binding Controls to Data
- Lab : Customizing Student Photographs and Styling the Application

After completing this module, you will be able to:
- Use XAML to design a UI.
- Bind a XAML control to data.
- Apply styles to a XAML UI.

Module 17: Improving Application Performance and Responsiveness
In this module, you will learn how to improve the performance of your applications by distributing your operations across multiple threads.

Lessons
- Implementing Multitasking
- Performing Operations Asynchronously
- Synchronizing Concurrent Access to Data
- Lab : Improving the Responsiveness and Performance of

the Application

After completing this module, you will be able to:
- Use the Task Parallel Library to implement multitasking.
- Perform long-running operations without blocking threads.
- Control how multiple threads can access resources concurrently.

Module 18: Creating Reusable Types and Assemblies
In this module, you will learn how to consume existing assemblies by using reflection and how to add additional metadata to types and type members by using attributes. You will also learn how to generate code at run time by using the Code Document Object Model (CodeDOM) and how to ensure that your assemblies are signed and versioned, and available to other applications, by using the global assembly cache (GAC).

Lessons
- Examining Object Metadata
- Creating and Using Custom Attributes
- Generating Managed Code
- Versioning, Signing, and Deploying Assemblies
- Lab : Specifying the Data to Include in the Grades Report

After completing this module, you will be able to:
- Use reflection to inspect and execute assemblies.
- Create and consume custom attributes.
- Generate managed code at run time by using CodeDOM.
- Version, sign, and deploy your assemblies to the GAC.

Module 19: Encrypting and Decrypting Data
In this module, you will learn how to implement symmetric and asymmetric encryption and how to use hashes to generate mathematical representations of your data. You will also learn how to create and manage X509 certificates and how to use them in the asymmetric encryption process.

Lessons
- Implementing Symmetric Encryption
- Implementing Asymmetric Encryption
- Lab : Encrypting and Decrypting the Grades Report

Student Materials & Lab Environment

All course software (limited versions, for course use only), digital courseware files or course notes, labs / data sets and solutions (as applicable) are provided for you in our "easy access / no install required" high-speed remote lab environment. Our tech team works with every student to ensure everyone is set up with working access and ready to go prior to every course start date, ensuring a smooth delivery and great hands-on experience. Please ask for details.

For More Information

All courses can be presented **onsite** or **online,** or in a **combined / flex / blended learning format**, tailored to target your specific audience, needs and learning goals. We also offer focused, flexible **short courses, self-paced learning** options, **recorded sessions** and more. We train beginner to advanced skills in all areas we cover, and offer **New Hire / Cohort Training**, **Boot Camps**, **Skills Immersion Programs**, **Reskilling Programs**, **Skills Migration & Transition Programs**, and more. We collaborate with you to ensure all courses are truly targeted to meet your specific needs and learning skills, maximizing your valuable training time, as well as your important budget.

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