

Course Outline

Module 1: Exploring ASP.NET MVC6

- Overview of Microsoft Web Technologies
- Overview of ASP.NET 4.5
- Introduction to ASP.NET MVC 6

Lab : Exploring ASP.NET MVC6

Module 2: Designing ASP.NET MVC 6 Web Applications

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

Lab : Designing ASP.NET MVC 6 Web Applications

Module 3: Developing ASP.NET MVC 6 Models

- Creating MVC Models
- Working with Data

Lab : Developing ASP.NET MVC 6 Models

Module 4: Developing ASP.NET MVC 6 Controllers

- Writing Controllers and Actions
- Writing Action Filters

Lab : Developing ASP.NET MVC 6 Controllers

Module 5: Developing ASP.NET MVC 6 Views

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

Lab : Developing ASP.NET MVC 6 Views

Module 6: Testing and Debugging ASP.NET MVC 6 Web Applications

- Unit Testing MVC Components
- Implementing an Exception Handling Strategy

Lab : Testing and Debugging ASP.NET MVC 6 Web Applications

Module 7: Structuring ASP.NET MVC 6 Web Applications

- Analyzing Information Architecture
- Configuring Routes
- Creating a Navigation Structure

Lab : Structuring ASP.NET MVC 6 Web Applications

Module 8: Applying Styles to ASP.NET MVC 6 Web Applications

- Using Template Views
- Applying CSS to an MVC Application
- Creating an Adaptive User Interface

Lab : Applying Styles to ASP.NET MVC 6 Web Applications

Module 9: Building Responsive Pages in ASP.NET MVC 6 Web Applications

- Using AJAX and Partial Page Updates
- Implementing a Caching Strategy

Lab : Building Responsive Pages in ASP.NET MVC 6 Web Applications

Module 10: Using JavaScript and jQuery for Responsive MVC 6 Web Applications

- Rendering and Executing JavaScript Code
- Using jQuery and jQueryUI

Lab : Using JavaScript and jQuery for Responsive MVC 6 Web Applications

Module 11: Controlling Access to ASP.NET MVC 6 Web Applications

- Implementing Authentication and Authorization
- Assigning Roles and Membership

Lab : Controlling Access to ASP.NET MVC 6 Web Applications

Module 12: Building a Resilient ASP.NET MVC 6 Web Application

- Developing Secure Sites
- State Management

Lab : Building a Resilient ASP.NET MVC 6 Web Application

Module 13: Using Windows Azure Web Services in ASP.NET MVC 6 Web Applications

- Introducing Windows Azure
- Designing and Writing Windows Azure Services
- Consuming Windows Azure Services in a Web Application

Lab : Using Windows Azure Web Services in ASP.NET MVC 6 Web Applications

Module 14: Implementing Web APIs in ASP.NET MVC 6 Web Applications

- Developing a Web API
- Calling a Web API from Mobile and Web Applications

Lab : Implementing Web APIs in ASP.NET MVC 6 Web Applications

Module 15: Handling Requests in ASP.NET MVC 6 Web Applications

- Using HTTP Modules and HTTP Handlers
- Using Web Sockets

Lab : Handling Requests in ASP.NET MVC 6 Web Applications

Module 16: Deploying ASP.NET MVC 6 Web Applications

- Deploying a Web Application
- Deploying an MVC 6 Application

Lab : Deploying ASP.NET MVC 6 Web Applications