

Visual Studio 2008: ASP .NET 3.5

Course Code: M6463A

Length: 2 Days

Course Description: This two-day instructor-led course provides students with the knowledge and skills to create a fully functional Web application by using ASP.NET 3.5.

After completing this course, students will be able to:

- Explain how to create dynamic Web pages by using ASP.NET.
- Manage state, handle requests, and improve accessibility by using the features of ASP.NET.
- Configure an ASP.NET application by using .config files
- Create a user interface on an ASP.NET page by using standard Web server controls.
- Create a user control and a custom server control and add them to an ASP.NET page.
- Access and manipulate data from different sources by using ADO.NET 3.5.
- Access and manipulate data from Windows Communication Foundation services or Web services.
- Present data to the user by placing data-bound controls on an ASP.NET page.
- Improve page responsiveness by using the ASP.NET AJAX controls.
- Interact with the user, access services, and access the AJAX client-side library by using client scripts.
- Find and eliminate bugs in an ASP.NET application.
- Deploy an ASP.NET application to a production Web server.
- Write pages that adapt to the capabilities of mobile devices.
- Utilize controls that adapt to the capabilities of mobile devices.

Prerequisites

Before attending this course, students must have intermediate experience developing applications by using previous versions of Microsoft Visual Studio at level 200.

Outline

Module 1: Getting Started with ASP.NET 3.5

This module explains how to build and configure a simple ASP.NET application.

- Introduction to ASP.NET Web Applications
- Features of ASP.NET 3.5
- Configuring ASP.NET Applications

Lab: Creating and Configuring an ASP.NET 3.5 Application

- Creating an ASP.NET Application
- Configuring Session State

- Configuring Caching

After completing this module, students will be able to:

- Explain how to create dynamic Web pages by using ASP.NET.
- Manage state, handle requests, and improve accessibility by using the features of ASP.NET.
- Configure an ASP.NET application by using .config files.

Module 2: Implementing a User Interface with ASP.NET Server Controls

This module explains how to implement a dynamic user interface by using ASP.NET controls.

- Consuming Controls to Interact with Users
- Creating Custom Controls

Lab: Consuming and Creating ASP.NET Server Controls

- Creating a User Interface by Using Server Controls in an ASP.NET Form
- Creating User Controls and Custom Server Controls

After completing this module, students will be able to:

- Create a user interface on an ASP.NET page by using standard Web server controls.
- Create a user control and a custom server control and add them to an ASP.NET page.

Module 3: Displaying and Manipulating Data in ASP.NET 3.5

This module explains how to display and manipulate data from any source in an ASP.NET application.

- Accessing Data by Using ADO.NET 3.5
- Accessing Data from Services
- Presenting Data in Web Controls

Lab: Displaying and Manipulating Data in ASP.NET 3.5

- Accessing Data from an XML File as a Data Source
- Consuming Data from a Web Service
- Displaying Data by Using Data-Bound Controls
- After completing this module, students will be able to:
- Access and manipulate data from different sources by using ADO.NET 3.5.
- Access and manipulate data from Windows Communication Foundation services or Web services.
- Present data to the user by placing data-bound controls on an ASP.NET page.

Module 4: Creating Responsive Pages by Using Client-Side Technologies

This module explains how to create pages that respond rapidly to user requests.

- Creating Partial Page Updates by Using AJAX
- Scripting Actions on the Web Client

Lab: Creating Responsive Pages by Using Client-Side Technologies

- Implementing Partial Page Updates by Using AJAX Controls
- Accessing a Web Service by Using a Client-Side Script

After completing this module, students will be able to:

- Improve page responsiveness by using the ASP.NET AJAX controls.
- Interact with the user, access services, and access the AJAX client-side library by using client scripts.

Module 5: Debugging and Deploying ASP.NET Applications

This module explains how to deploy a reliable, robust Web application to a Web server.

- Troubleshooting and Debugging ASP.NET Applications
- Deploying Completed ASP.NET Applications

Lab: Debugging and Deploying an ASP.NET Application

- Debugging an ASP.NET Application
- Deploying an ASP.NET Application

After completing this module, students will be able to:

- Find and eliminate bugs in an ASP.NET application.
- Deploy an ASP.NET application to a production Web server.

Module 6: Writing ASP.NET Applications for Mobile Devices

This module explains how to ensure that mobile device users can access all the functionality of a Web site.

- Rendering Pages According to Device Capabilities
- Creating Pages with Mobile Web Controls

Lab: Adding Support for Mobile Devices

- Adding a Mobile Web Form to Your Application
- Displaying Data by Using Mobile Web Controls

After completing this module, students will be able to:

- Write pages that adapt to the capabilities of mobile devices.
- Utilize controls that adapt to the capabilities of mobile devices.