
Developing Microsoft ASP.NET Web Application Using Visual Studio .NET

Duration: 5 Days **Course Code: M2310**

Overview:

This instructor-led course will teach Microsoft Visual Basic® programmers and beginning Web developers the fundamentals of Web application site implementation by using Microsoft ASP.NET and Microsoft Visual Basic .NET. This course focuses on using the Microsoft Visual Studio® .NET environment and the Microsoft .NET platform to create an ASP.NET Web application that delivers dynamic content to a Web site.

Target Audience:

This course is intended for beginning Web developers who have knowledge of the Hypertext Markup Language (HTML) or dynamic HTML (DHTML), along with some knowledge of a scripting language, such as Visual Basic Scripting Edition or Microsoft JScript®. This course is also appropriate for Visual Basic 6.0 developers wanting to learn ASP.NET.

Objectives:

- At the end of this course delegates will be able to;
 - Explain the Microsoft .NET Framework and ASP.NET
 - Create a component in Visual Basic .NET or C#.
 - Create an ASP.NET web application project using Visual Studio.NET
 - Add server controls to an ASP.NET Web Form.
 - Create and populate ASP.NET Web Forms.
 - Add functionality to server controls on an ASP.NET Web Form.
 - Use the Trace & Debug objects provided with Visual Studio .NET
 - Use validation controls to validate user input & create a user control.
 - Accomplish data access tasks from an ASP.NET Web application
 - Access Extensible Markup Language (XML) data & read it into a DataSet.
 - Call an XML Web service from an ASP.NET Web application and incorporate the returned data into a Web application.
 - Store application and session data by using a variety of methods.
 - Configure and deploy an ASP.NET Web application.
 - Secure an ASP.NET Web application using a variety of technologies.
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Prerequisites:

Delegates are required to meet the following prerequisites:

- Completing M1912—Introduction to Web Development Technologies.
Or have the following skills
- Have the ability to create HTML or DHTML, including Tables, Images, Forms
AND
- Programming experience using Visual Basic .NET, including declaring variables , using loops & Using conditional statements
In addition, it is recommended,that delegates have completed:
- M2559 Introduction to Visual Basic .NET programming
- M2373 Programming with Microsoft Visual Basic .NET
OR
- M2124 Programming with C#

Testing and Certification

Recommended as preparation for exam(s):

- M2310, M2373 & M2389 - Developing and Implementing Web Applications with Microsoft Visual Basic® .NET and Microsoft Visual Studio® .NET(Microsoft Exam 70-305)
- M2310, M2124 & M2389 - Developing and Implementing Web Applications with Microsoft Visual C#™ .NET and Microsoft Visual Studio & eg: .NET (Microsoft Exam 70-315)

Follow-on-Courses:

The following courses are recommended for further study:

- M2389 Programming with Microsoft ADO.NET
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Content:

Overview of the Microsoft .NET Framework

- Introduction to the .NET Framework ; overview of ASP.NET
- Overview of the Lab Application Resources

Using Microsoft Visual Studio .NET

- Creating an ASP.NET Web Application Project

Validating User Input

- Overview of User Input Validation
- Using Validation Controls
- Page Validation

Creating User Controls

- Adding User Controls to an ASP.NET Web Form ; Creating User Controls

Reading and Writing XML Data

- Overview of XML Architecture in ASP.NET
- XML and the DataSet Object
- Working with XML Data
- Using the XML Web Server Control

Consuming ; Creating XML Web Services

- Using a Proxy to Call an XML Web Service
- Creating an XML Web Service

Using Microsoft .NET-Based Languages

- Comparison of the .NET-Based Languages
- Creating a Component Using Visual Studio .NET

Creating a Microsoft ASP.NET Web Form

- Creating Web Forms ; Using Server Controls

Adding Code to a Microsoft ASP.NET Web Form

- Using Code-Behind Pages
- Adding Event Procedures to Web Server Controls
- Using Page Events

Tracing in Microsoft ASP.NET Web Applications

- Understanding Tracing ; Remote Debugging

Accessing Relational Data Using Microsoft Visual Studio .NET

- Overview of ADO.NET
- Creating a Connection to the Database
- Displaying a DataSet in a List-Bound Control

Accessing Data with Microsoft ADO.NET

- Introduction to Using ADO.NET
- Connecting to a Database
- Accessing Data with DataSets
- Using Multiple Tables
- Accessing Data with DataReaders

Calling Stored Procedures with Microsoft ADO.NET

- Overview of Stored Procedures
- Calling Stored Procedures

Managing State

- State management
- Application and Session Variables
- Cookies and Cookieless Sessions

Configuring, Optimising ; Deploying a Microsoft ASP.NET Web Application

- Using the Cache Object
- Using ASP.NET Output Caching
- Configuring an ASP.NET Web Application
- Deploying an ASP.NET Web Application

Helping to Protect a Microsoft ASP.NET Web Application

- Web Application Security Overview
- Working with Windows-Based Authentication
- Working with Forms-Based Authentication
- Overview of Microsoft Passport Authentication

Additional Information:

This course is taught using 2002. For 2005 please see M2543 & M2544.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 01924 377489

info@globalknowledge.co.uk

www.globalknowledge.co.uk

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