

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

Course No: MS2310
Five days • Instructor-led-Classroom

Microsoft .NET



OVERVIEW

This five-day, 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.

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.

PREREQUISITES

Before attending this course, students must have:

- The ability to create HTML or DHTML, including Tables, Images and Forms
- Programming experience using Visual Basic .NET, including:
 - Declaring variables
 - Using loops

MICROSOFT CERTIFIED PROFESSIONAL EXAMS

This course helps you prepare for the following Microsoft Certified Professional exam(s):

Exam 70-305:

Developing and Implementing Web Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio .NET.

Exam 70-315:

Developing and Implementing Web Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET.

COURSE MATERIALS

The student kit includes a comprehensive workbook, lab exercises and data files for the student to keep. Evaluation software will be provided where appropriate.

MODULE 1: OVERVIEW OF THE MICROSOFT .NET FRAMEWORK

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

MODULE 2: USING MICROSOFT VISUAL STUDIO .NET

- Overview of Visual Studio .NET
- Creating an ASP.NET Web Application Project

MODULE 3: USING MICROSOFT .NET-BASED LANGUAGES

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

MODULE 4: CREATING A MICROSOFT ASP.NET WEB FORM

- Creating the default.aspx Web Form
- Creating the life.aspx Web Form

MODULE 5: ADDING CODE TO A MICROSOFT ASP.NET WEB FORM

- Creating a Page_Load Event Procedure
- Creating a Click Event Procedure

MODULE 6: TRACING IN MICROSOFT ASP.NET WEB APPLICATIONS

- Using Trace Statements
- Tracing into a Component

MODULE 7: VALIDATING USER INPUT

- Using RequiredFieldValidator Controls
- Using the ValidationSummary Control
- Using the CompareValidator Control
- Using the RegularExpressionValidator Control

MODULE 8: CREATING USER CONTROLS

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

MODULE 9: 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

MODULE 10: 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

MODULE 11: CALLING STORED PROCEDURES WITH MICROSOFT ADO.NET

- Overview of Stored Procedures
- Calling Stored Procedures

MODULE 12: 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

MODULE 13: CONSUMING AND CREATING XML WEB SERVICES

- Overview of Using XML Web Services
- Calling an XML Web Service by HTTP
- Using a Proxy to Call an XML Web Service
- Creating an XML Web Service

MODULE 14: MANAGING STATE

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

MODULE 15: CONFIGURING, OPTIMISING, AND 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

MODULE 16: 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

MODULE 17: REVIEW

- Review of Material Covered
- Introduction to the Game

For course dates and pricing visit us online at www.nexgenn.com

