

10267AC

**Introduction to Web
Development with Microsoft
Visual Studio 2010**

5 DAYS

In this course, students will be introduced to ASP.NET Web development using ASP.NET Web Forms and supporting Microsoft technologies. This course focuses more on server-side programming and data access/management rather than client-side programming. AJAX is covered at a beginner level. Additional Web development models such as Silverlight and ASP.NET MVC are demonstrated for students but will not be covered in any significant detail.

Module 1: Exploring Microsoft ASP.NET Web Applications in Microsoft Visual Studio 2010

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

Module 2: Creating Web Applications by Using Microsoft Visual Studio 2010 and Microsoft .NET-Based Languages

Choosing a Programming Language
Overview of Visual Studio 2010
Creating a Simple Web Application

Module 3: Creating a Microsoft ASP.NET Web Form

Creating Web Forms
Adding and Configuring Server Controls in a Web Form

Module 4: Adding Functionality to a Microsoft ASP.NET Web Form

Working with Code-Behind Files
Handling Server Control Events
Creating Classes and Components by Using Visual Studio 2010
Handling Page Events

Module 5: Implementing Master Pages and User Controls

Creating Master Pages
Adding User Controls to an ASP.NET Web Form

Module 6: Validating User Input

Overview of User Input Validation
ASP.NET Validation Controls
Validating Web Forms

Module 7: Troubleshooting Microsoft ASP.NET Web Applications

Debugging in ASP.NET
Tracing in ASP.NET

Module 8: Managing Data in an Microsoft ASP.NET 4.0 Web Application

Overview of ADO.NET
Connecting to a Database
Managing Data

Module 9: Managing Data Access Tasks by Using LINQ

Overview of LINQ
Managing XML Data by Using LINQ to XML
Managing SQL Data by Using LINQ to SQL and LINQ to Entities

Module 10: Managing Data by Using Microsoft ASP.NET Dynamic Data

Overview of ASP.NET Dynamic Data
Applying ASP.NET Dynamic Data
Customizing ASP.NET Dynamic Data Applications

Module 11: Creating a Microsoft ASP.NET Ajax-enabled Web Forms Application

Introduction to Ajax
Creating an ASP.NET Ajax Application by Using the Ajax Features for ASP.NET
Extending an ASP.NET Web Forms Application by Using the Ajax Control Toolkit

Module 12: Consuming Microsoft Windows Communication Foundation Services

Overview of Windows Communication Foundation Services
Calling Windows Communication Foundation Services
Working with WCF Data Services

Module 13: Managing State in Web Applications

State Management
ASP.NET Profiles
ASP.NET Caching

Module 14: Configuring and Deploying a Microsoft ASP.NET Web Application

Configuring an ASP.NET Web Application
Deploying an ASP.NET Web Application

Module 15: Configuring and Deploying a Microsoft ASP.NET Web Application

Overview of Web Application Security
Declaratively Configuring Authentication and Authorization
Working Programmatically with Authentication and Authorization