

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

**Duración: 5 Días**    **Código del Curso: M2310**

### Temario:

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. 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.

### Dirigido a:

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.

### Objetivos:

- 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.

### 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, but not required, that delegates have completed:
- M2559 Introduction to Visual Basic .NET programming
- M2373 Programming with Microsoft Visual Basic .NET

### Exámenes y certificación:

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)

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## Siguientes cursos recomendados:

The following courses are recommended for further study:

- M2373 Programming with Microsoft Visual Basic.NET
  - M2389 Programming with Microsoft ADO.NET
  - M2124 Programming with C#
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## Contenido:

### 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

### 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

### 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

### 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

### 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

### 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
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## Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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