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## Core Web Application Technologies with MS Visual Studio 2005

**Duration: 3 Days**    **Course Code: M2543**

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### Overview:

This three-day instructor-led workshop provides students with the knowledge and skills to develop Microsoft ASP.NET 2.0 Web applications using Microsoft Visual Studio 2005. The workshop focuses on user interfaces, Web site structure and functionality, and implementation details.

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### Target Audience:

This workshop is intended for corporate/ISV application developers who have a desire to learn more about specific technology areas in Web application development. This workshop is intended for corporate/ISV application developers who have a desire to learn more about specific technology areas in Web application development.

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### Objectives:

- Create a Web application.
  - Program a Web application.
  - Add and configure server controls for a Web application.
  - Use master pages to establish a common layout for a Web application.
  - Manage state data for a Web application.
  - Access and display data in a Web application.
  - Control access to a Web application.
  - Deploy a Web application.
  - Create a mobile Web application.
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### Prerequisites:

Before attending this workshop, students must:

- Be able to manage a solution environment using the Visual Studio 2005 IDE and tools
- Understand Microsoft .NET Framework 2.0 and the Common Language Runtime
- Be able to program an application using a .NET Framework 2.0 compliant language
- Know how to make assemblies available to other applications
- Have a basic understanding of XML including XML declaration, elements, attributes, and namespaces
- Have a basic understanding of client-side scripts
- Have a basic understanding of HTML

### Testing and Certification

This course prepares delegates for the following exam(s):

- Exam 70-528 TS: Microsoft.NET Framework 2.0 - Web-based Client Development
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### Follow-on-Courses:

- M2547 Advanced Windows Forms Technologies with MS Visual Studio 2005
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## Content:

### Creating a Web Application

- Visual Studio Web Site Types
- Default Event Handling in Web Applications
- Web Configuration Files

### Programming a Web Application

- Event Handling in Web Applications
- Browser Capability Detection
- Page Header Retrieval
- Page-Level and Application-Level Error Handling

### Adding and Configuring Server Controls

- HTML Controls and Web Server Controls
- Types of Web Server Controls
- Working with Web Server Controls
- The ASP.NET 2.0 Page Postback Model

### Creating a Common Layout by Using Master Pages

- What Are Master Pages?
- What Are Content Pages?
- Nested Master Pages

### Managing State for a Web Application

- ViewState Properties and ControlState Data
- Application and Session Objects
- Strategies for Managing Session State Data
- The Cache Object

### Accessing and Displaying Data

- Database Connections and the Web.Config File
- Relational Data and Data Source Controls
- XML Data and Data Source Controls
- Object Data and Data Source Controls

### Controlling Access to a Web Application

- Authentication for Web Applications
- Authorization for Web Applications
- Site Membership Systems Using the Membership Class
- Web Site Security Administration Using the Roles Class

### Deploying a Web Application

- The Copy Web Site Utility
- The Publish Web Site Utility
- Windows Installer Setup Packages

### Making Web Applications Available to Mobile Devices

- Device Emulators for Mobile Web Forms
- Mobile Device Detection and Redirection
- Mobile Web Forms
- Device-Specific Features in Mobile Web Forms

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## Additional Information:

You are viewing a Preliminary Course Syllabus. This course is not yet available. Because some parts of the course are currently in development, some elements of this syllabus are subject to change.

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## Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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