

## MCTS - .NET Framework 2.0 Web Applications

This 10-day intensive training offering will prepare students to effectively utilize the tools and technologies delivered with Visual Studio 2005 and the .NET Framework 2.0 to build ASP.NET 2.0 web applications which leverage the power of ADO.NET 2.0 for data access. Note that due to the amount of material covered, this class will run for 12 hours each day. The class will be delivered by seasoned .NET developers with years of development and instructional experience.

**\*\*\*\*\*Includes coverage of .NET Framework 3.0\*\*\*\*\***

**Each student attending the class will receive the following:**

**\*\*\*\*\*Valued at over \$1000\*\*\*\*\***

- Official Microsoft Learning course materials, including lab exercises
  - Reference text(s) appropriate to the specific training offering
    - Voucher(s) for all applicable exams
      - Exam study materials

**The class will cover the objectives for the following exams:**

- [Exam 70-536](#): TS: Microsoft .NET Framework 2.0 - Application Development Foundation
- [Exam 70-528](#): TS: Microsoft .NET Framework 2.0 - Web-Based Client Development

**Prerequisites for this class include:**

- 1 to 3 months as a full-time developer using Visual Studio .NET 2005
- Experience developing one or more of the following using .NET:
  - Web Applications
  - Windows Applications
  - Server Components
  - XML Web Services

# Course Outline - .NET Framework 2.0 Web Applications

## **Programming with the Microsoft .NET Framework Using Microsoft Visual Studio 2005**

- Overview of the Microsoft .NET Framework
- Creating Applications with Visual Studio 2005
- Examining Language and Syntax Features
- Essentials of Object-Oriented Programming
- Advanced Object-Oriented Programming
- Security in the .NET Framework
- Accessing Data by Using ADO.NET
- Building Windows Presentation Foundation Applications
- Creating Distributed Applications
- Monitoring .NET Framework Applications by Using Instrumentation
- Compiling, Testing, and Deploying .NET Framework Applications
- Interoperating with Unmanaged Code (Optional)
- Software Design and Development (Optional)

## **Core Data Access with Microsoft Visual Studio 2005**

- Connecting to Databases and Reading Data
- Querying and Updating Databases by Using Commands
- Performing Transactional Operations
- Performing Disconnected Operations Programmatically
- Performing Disconnected Operations by Using Visual Studio 2005 Wizards
- Performing XML Operations on Disconnected Data
- Reading and Writing XML Data
- Processing XML Data by Using DOM

## **Advanced Data Access with Microsoft Visual Studio 2005**

- Minimizing and Handling Database Operation Conflicts
- Handling Large Objects
- Enhancing Database Performance
- Creating Managed Code Objects for SQL Server 2005
- Querying XML by Using XPath
- Transforming XML by Using XSLT Style Sheets

## **Core Web Application Technologies with Microsoft Visual Studio 2005**

- Creating a Web Application
- Programming a Web Application
- Adding and Configuring Server Controls
- Creating a Common Layout by Using Master Pages
- Managing State for a Web Application
- Accessing and Displaying Data
- Controlling Access to a Web Application
- Deploying a Web Application
- Making Web Applications Available to Mobile Devices

## **Advanced Web Application Technologies with Visual Studio 2005**

- Building Dynamic Web Applications
- Creating Controls for Web Applications
- Optimizing Web Application Performance
- Implementing Personalization and Themes in Web Applications
- Building Web Part Pages and Web Parts