



## Course Outline

### **What's New in Microsoft Visual Studio 2005 for existing Visual Studio .NET Developers**

Workshop 2364: Three days; Instructor-Led

#### **Introduction**

This three-day instructor-led workshop will provide the student with a focused, hands-on environment to experience the new features and functionality of the Microsoft Visual Studio 2005 product. Students will spend 70%–80% of their time writing code using the Visual Studio 2005 Beta 1 release.

#### **Audience**

This workshop is intended for experienced, professional software developers who are already skilled in building software using Microsoft Visual Studio .NET or Microsoft Visual Studio .NET 2003, including those employed by independent software vendors or those who work on corporate enterprise development teams.

#### **At Workshop Completion**

After completing this workshop, students will be able to:

- Apply knowledge of new productivity features and functionality in Visual Studio 2005 Integrated Development Environment (IDE) to develop software more efficiently
- Write applications that use the Microsoft Visual Basic and Microsoft Visual C# programming language enhancements
- Build managed code to run inside SQL Server 2005 (codename "Yukon")
- Write data access code using the improved functionality in ADO.NET
- Build Microsoft Windows Forms applications using new controls and new functionality in the Visual Studio 2005 IDE designers
- Deploy rich client applications using the new ClickOnce application deployment functionality
- Build ASP.NET Web applications using new controls and new functionality in the Visual Studio 2005 IDE designers

#### **Prerequisites**

Before attending this workshop, students must have:

- Experience (at least 1 year) as a full-time developer using Visual Studio .NET or Visual Studio .NET 2003
- Experience in developing applications in one or more of the following fields:

Web Application  
Windows Forms Application  
Server Component  
XML Web Services

#### **Microsoft Certified Professional Exams**

No Microsoft Certified Professional exams are associated with this course currently.



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### Course Materials

The student kit includes a comprehensive workbook and other necessary materials for this class.

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#### ***Unit 1: Introduction to Visual Studio 2005***

This unit provides a hands-on, fast-paced opportunity for experienced developers to learn how to use some of the new productivity features in Visual Studio 2005. It provides an introduction to the code refactoring features, the use of some language enhancements such as generics, and the use of code snippets. This unit is also designed as an introduction to the workshop learning format.

After completing this unit, students will be able to:

- Build collections using generics
- Use existing code snippets in code and create new code snippets

Visual Basic developers will be able to:

- Use My classes to access system and application resources

Visual C# developers will be able to

- Refactor code using the refactoring features

#### **Lab: Programming using the productivity enhancements and language improvements in Visual Studio 2005**

#### ***Unit 2: Building Managed Code for SQL Server 2005***

This unit teaches students how to use Visual Studio 2005 to create managed code that runs inside SQL Server 2005.

After completing this unit, students will be able to:

- Write a managed assembly to run inside SQL Server 2005
- Create a managed user-defined function
- Write and access a managed stored procedure
- Write a managed code user defined type (UDT), store it in a SQL Server table and use it in a program
- Store XML documents in the XML type supported by SQL Server 2005, and validate XML in the database using an XML Schema
- Create an XML Schema using the Visual Studio 2005 XML Designer
- Query and update XML data using XmlDocument

#### **Lab: Writing Managed Code for SQL Server 2005**

#### **Lab: Working with XML in Visual Studio 2005 and SQL Server 2005**

#### ***Unit 3: Building Data Components in Visual Studio 2005***

This unit provides an opportunity for experienced developers to create data access code using new features in Visual Studio 2005.



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After completing this unit, students will be able to:

- Create data components using Visual Studio 2005
- Edit data components using Visual Studio 2005 wizards and designers
- Write asynchronous ADO.NET code

### **Lab: Accessing Data with ADO.NET**

#### ***Unit 4: Building Presentation Layer Applications with Windows Forms***

This unit provides an opportunity for experienced developers to build rich client applications using the new productivity features in the Visual Studio 2005 IDE, and the new controls in the .NET Framework. It also gives students an introduction to the new ClickOnce deployment technology for Windows Forms applications. ClickOnce makes it easy to deploy Windows Forms applications to multiple clients via a Web server, including the ability to automatically update clients when application changes occur.

After completing this unit, students will be able to:

- Build Windows Forms applications using Visual Studio 2005
- Create databound forms using the RAD databinding features of the IDE
- Generate Master-Detail forms using Visual Studio 2005 SmartTags
- Create databound forms that bind to data components
- Deploy a Windows Forms application from a Web server using ClickOnce
- Write an application that automatically updates on multiple clients when a new version is deployed

### **Lab: RAD databinding in Windows Forms Applications**

### **Lab: Databinding to Components and Web Services in Windows Forms**

### **Lab: Deploying Windows Forms applications with ClickOnce**

#### ***Unit 5: Building Presentation Layer Applications with ASP.NET 2.0***

This unit provides an opportunity for experienced developers to build Web applications using the new productivity features in the Visual Studio 2005 IDE and the new controls in the .NET Framework.

After completing this unit, students will be able to:

- Create databound Web forms that bind to data components
- Write code using the Web Applications (ASP.NET 2.0) enhancements
- Program the new ASP.NET data source controls: SqlDataSource, ObjectDataSource, AccessDataSource, SiteMapDataSource, XmlDataSource
- Create a common Web page layout with Master Pages, Site Navigation and Themes
- Manage Web application users with Membership and Role Management



## Course Outline

**Lab: RAD databinding in ASP.NET 2.0**

**Lab: Programming Master Pages, Site Navigation, and Themes**

**Lab: Membership and Role Management in ASP.NET 2.0**

### About Microsoft Workshops

Microsoft Official Workshops are for students who want to enhance their skills, where they learn by doing through scenario and troubleshooting hands-on labs, targeted reviews, information resources, and best practices.

Students in a developer workshop typically spend 70–80% of their time in labs writing code.