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Programming with Microsoft® Visual Basic® .NET (Prerelease)

Delivery Guide

Course Number: 2373A

For trainer preparation purposes only

This course is based on the prerelease version (Beta 2) of Microsoft® Visual Studio® .NET Enterprise Edition. Content in the final release of the course may be different from the content included in this prerelease version. All labs in the course are to be completed with the Beta 2 version of Visual Studio .NET Enterprise Edition.

Part Number: X08-45636
Released: 08/2001

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About This Course

This section provides you with a brief description of the course, audience, suggested prerequisites, and course objectives.

Description

This five day instructor-led course provides students with the knowledge and skills needed to develop Microsoft® .NET–based applications by using Microsoft Visual Basic® .NET version 7.0. The course focuses on the new features and enhancements to Visual Basic.

Audience

This course is intended for experienced Visual Basic developers who want to upgrade to Visual Basic .NET.

Student Prerequisites

This course requires that students meet the following prerequisites:

- Experience developing applications with Visual Basic 4.0 or later
- Successful completion of Course 1013A, *Mastering Microsoft Visual Basic 6 Development* or equivalent knowledge

  OR
- Successful completion of Course 1016A, *Mastering Enterprise Development Using Microsoft Visual Basic 6* or equivalent knowledge
- Familiarity with basic concepts of object-oriented programming
- Familiarity with XML concepts
- Familiarity with Microsoft's .NET strategy as described on Microsoft's .NET Web site: http://www.microsoft.com/net/
- Familiarity with the .NET Framework as described on the following Web sites:
  http://msdn.microsoft.com/msdnmag/issues/0900/Framework/Framework.asp
  and http://msdn.microsoft.com/msdnmag/issues/1000/Framework2/Framework2.asp

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Course Objectives

After completing this course, the student will be able to:

- List the major elements of the .NET Framework and describe some of the major enhancements to the new version of Visual Basic.
- Describe the basic structure of a Visual Basic .NET project and use the main features of the integrated development environment (IDE).
- Use the new language features and syntax in Visual Basic .NET.
- Explain the basic concepts and terminology of object-oriented design specifically for Visual Basic .NET.
- Explain and use the basic concepts and terminology of object-oriented programming in Visual Basic .NET.
- Create applications by using Microsoft Windows® Forms.
- Create Internet applications that use Web Forms and Web Services.
- Create applications that use ADO .NET.
- Create components in Visual Basic .NET.
- Set up and deploy various types of Visual Basic .NET–based applications.
- Prepare existing Visual Basic –based applications for upgrade to Visual Basic .NET.

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Course Timing

The following schedule is an estimate of the course timing. Your timing may vary.

Day 1

Start	End	Module
9:00	9:30	Introduction
9:30	10:30	Module 1: Overview of the Microsoft .NET Platform
10:30	10:45	Break
10:45	11:45	Module 2: Development Environment Features
11:45	12:45	Lunch
12:45	1:30	Lab 2.1: Exploring the Development Environment
1:30	2:45	Module 3: Syntax and Language Enhancements
2:45	3:00	Break
3:00	3:45	Lab 3.1: Working with Variables and Procedures
3:45	4:15	Lab 3.2: Implementing Structured Exception Handling

Day 2

Start	End	Module
9:00	9:30	Day 1 review
9:30	10:45	Module 4: Object-Oriented Design for Visual Basic .NET
10:45	11:00	Break
11:00	11:45	Lab 4.1: Creating Class Diagrams from Use Cases
11:45	12:45	Lunch
12:45	2:15	Module 5: Object-Oriented Programming in Visual Basic .NET
2:15	2:30	Break
2:30	3:15	Lab 5.1: Creating the Customer Class
3:15	4:15	Lab 5.2: Inheriting the Package Class

Day 3

Start	End	Module
9:00	9:30	Day 2 review
9:30	10:45	Module 6: Using Windows Forms
10:45	11:00	Break
11:00	11:45	Lab 6.1: Creating the Customer Form
11:45	12:45	Lunch
12:45	2:45	Module 7: Building Web Applications
2:45	3:00	Break
3:00	4:00	Lab 7.1: Creating the Customer Logon Web Forms
4:00	4:45	Lab 7.2: Creating and Using the CustomerService Web Service

Day 4

Start	End	Module
9:00	9:30	Day 3 review
9:30	10:30	Module 8: Using ADO .NET
10:30	10:45	Break
10:45	11:45	Module 8: Using ADO .NET
11:45	12:45	Lunch
12:45	1:45	Lab 8.1: Creating Applications That Use ADO .NET
1:45	3:15	Module 9: Developing Components in Visual Basic .NET
3:15	3:30	Break
3:30	4:30	Lab 9.1: Creating a Serviced Component
4:30	5:00	Lab 9.2: Creating a Web Forms User Control

Day 5

Start	End	Module
9:00	9:30	Day 4 review
9:30	10:45	Module 10: Deploying Applications
10:45	11:00	Break
11:00	11:15	Lab 10.1: Packaging a Component Assembly
11:15	12:00	Lab 10.2: Deploying a Windows Application
12:00	1:00	Lunch
1:00	2:00	Module 11: Upgrading to Visual Basic .NET
2:00	3:00	Course Wrap-up

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Trainer Materials Compact Disc Contents

The Trainer Materials compact disc contains the following files and folders:

- *Autorun.exe*. When the compact disc is inserted into the CD-ROM drive, or when you double-click the **Autorun.exe** file, this file opens the compact disc and allows you to browse the Student Materials or Trainer Materials compact disc, or install Microsoft Internet Explorer.
- *Default.htm*. This file opens the Trainer Materials Web page.
- *Readme.txt*. This file explains how to install the software for viewing the Trainer Materials compact disc and its contents and how to open the Trainer Materials Web page.
- *2373A_ms.doc*. This file is the Manual Classroom Setup Guide. It contains the steps for manually installing the classroom computers.
- *Errorlog*. This folder may contain an error log. If there are no known errors in the course, the error log does not appear. The HTML file in this folder is viewable through the Trainer Materials compact disc interface.
- *Fonts*. This folder contains fonts that are required to view the Microsoft PowerPoint® presentation and Web-based materials.
- *Menu*. This folder contains elements for Autorun.exe.
- *Mplayer*. This folder contains the setup file to install Microsoft Windows Media™ Player.
- *Powerpnt*. This folder contains the PowerPoint slides that are used in this course.
- *Pptview*. This folder contains the PowerPoint Viewer, which is used to display the PowerPoint slides
- *Setup*. This folder contains the files that install the course and related software to computers in a classroom setting.
- *StudentCD*. This folder contains the Web page that provides students with links to resources pertaining to this course, including additional reading, review and lab answers, lab files, multimedia presentations, and course-related Web sites.
- *Tools*. This folder contains files and utilities used to complete the setup of the instructor computer.
- *Webfiles*. This folder contains the files that are required to view the course Web page. To open the Web page, open Windows Explorer, and in the root directory of the compact disc, double-click **Default.htm** or **Autorun.exe**.

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Student Materials Compact Disc Contents

The Student Materials compact disc contains the following files and folders:

- *Autorun.exe*. When the compact disc is inserted into the CD-ROM drive, or when you double-click the **Autorun.exe** file, this file opens the compact disc and allows you to browse the Student Materials compact disc or install Internet Explorer.
- *Default.htm*. This file opens the Student Materials Web page. It provides you with resources pertaining to this course, including additional reading, review and lab answers, lab files, multimedia presentations, and course-related Web sites.
- *Readme.txt*. This file explains how to install the software for viewing the Student Materials compact disc and its contents and how to open the Student Materials Web page.
- *2373A_ms.doc*. This file is the Manual Classroom Setup Guide. It contains a description of classroom requirements, classroom setup instructions, and the classroom configuration.
- *Addread*. This folder contains additional reading pertaining to this course. If there are no additional reading files, this folder does not appear.
- *Appendix*. This folder contains appendix files for this course. If there are no appendix files, this folder does not appear.
- *Democode*. This folder contains demonstration code. If there is no demonstration code, this folder does not appear.
- *Flash*. This folder contains the installer for the Macromedia Flash 5.0 browser plug-in. If there are no Flash animations in the course, this folder does not appear.
- *Fonts*. This folder contains fonts that are required to view the PowerPoint presentation and Web-based materials.
- *Ie5*. This folder contains Internet Explorer 5.
- *Labs*. This folder contains files that are used in the hands-on labs. These files may be used to prepare the student computers for the hands-on labs.
- *Media*. This folder contains files that are used in multimedia presentations for this course. If this course does not include any multimedia presentations, this folder does not appear.
- *Menu*. This folder contains elements for Autorun.exe.
- *Mplayer*. This folder contains files that are required to install Windows Media Player.
- *Practices*. This folder contains files that are used in the hands-on practices. If there are no practices, this folder does not appear.
- *Sampapps*. This folder contains the sample applications associated with this course. If there are no associated sample applications, this folder does not appear.

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- *Sampcode*. This folder contains sample code that is accessible through the Web pages on the Student Materials compact disc. If there is no sample code, this folder does not appear.
- *Sampsite*. This folder contains files that create the sample site associated with this course. If there is no sample site, this folder does not appear.
- *Webfiles*. This folder contains the files that are required to view the course Web page. To open the Web page, open Windows Explorer, and in the root directory of the compact disc, double-click **Default.htm** or **Autorun.exe**.
- *Wordview*. This folder contains the Word Viewer that is used to view any Word document (.doc) files that are included on the compact disc.

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Document Conventions

The following conventions are used in course materials to distinguish elements of the text.

Convention	Use
◆	Indicates an introductory page. This symbol appears next to a topic heading when additional information on the topic is covered on the page or pages that follow it.
bold	Represents commands, command options, and syntax that must be typed exactly as shown. It also indicates commands on menus and buttons, dialog box titles and options, and icon and menu names.
italic	In syntax statements or descriptive text, indicates argument names or placeholders for variable information. Italic is also used for introducing new terms, for book titles, and for emphasis in the text.
Title Capitals	Indicate domain names, user names, computer names, directory names, and folder and file names, except when specifically referring to case-sensitive names. Unless otherwise indicated, you can use lowercase letters when you type a directory name or file name in a dialog box or at a command prompt.
ALL CAPITALS	Indicate the names of keys, key sequences, and key combinations—for example, ALT+SPACEBAR.
`monospace`	Represents code samples or examples of screen text.
[ ]	In syntax statements, enclose optional items. For example, [*filename*] in command syntax indicates that you can choose to type a file name with the command. Type only the information within the brackets, not the brackets themselves.
{ }	In syntax statements, enclose required items. Type only the information within the braces, not the braces themselves.
|	In syntax statements, separates an either/or choice.
↙	Indicates a procedure with sequential steps.
...	In syntax statements, specifies that the preceding item may be repeated.
. . .	Represents an omitted portion of a code sample.

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