

Module 1: Overview of the Microsoft .NET Platform

The following topics are covered in this module:

- What Is the Microsoft .NET Platform?
- What Is the .NET Framework?
- What Are the .NET Framework Components?
- What Are the Visual Basic .NET Enhancements?

After completing this module, you will be able to:

- List the main elements of the .NET Platform.
- Describe the .NET Framework and its components.
- List the major enhancements to Visual Basic .NET.

Module 2: Development Environment Features

The following topics are covered in this module:

- Describing the Integrated Development Environment
- Creating Visual Basic .NET Projects
- Using Development Environment Features
- Debugging Applications
- Compiling in Visual Basic .NET

After completing this module, you will be able to:

- Describe the overall benefits of the new IDE.
- Describe the different types of Visual Basic .NET projects and their structures, including their file structures.
- Reference external applications from your project.
- View and set the properties of a project.
- Use the various windows in the IDE, including Server Explorer, the Object Browser, and the Task List.
- Debug a simple application.
- Build and compile a simple application.

Module 3: Language and Syntax Enhancements

The following topics are covered in this module:

- Data Types
- Using Variables
- Functions, Subroutines, and Properties
- Exception Handling

After completing this module, you will be able to:

- Describe the changes to data types in Visual Basic .NET.
- Declare and initialize variables and arrays.
- Use shorthand syntax to assign values to variables.
- Implement functions and subroutines.
- Call the default properties of an object.
- Use the new Try...Catch...Finally statement to implement structured exception handling.

Module 4: Object-Oriented Design for Visual Basic .NET

The following topics are covered in this module:

- Designing Classes
- Object-Oriented Programming Concepts
- Advanced Object-Oriented Programming Concepts
- Using Microsoft Visio®

After completing this module, you will be able to:

- Describe the basics of object-oriented design.
- Explain the concepts of encapsulation, inheritance, interfaces, and polymorphism.
- Create classes based on use cases.
- Model classes for use in Visual Basic .NET by using Visio.

Module 5: Object-Oriented Programming in Visual Basic .NET

The following topics are covered in this module:

- Defining Classes
- Creating and Destroying Objects
- Inheritance
- Interfaces
- Working with Classes

After completing this module, you will be able to:

- Define classes.
- Instantiate and use objects in client code.
- Create classes that use inheritance.
- Define interfaces and use polymorphism.
- Create shared members.
- Create class events and handle them from a client application.

Module 6: Using Windows Forms

The following topics are covered in this module:

- Why Use Windows Forms?
- Structure of Windows Forms
- Using Windows Forms
- Using Controls
- Windows Forms Inheritance

After completing this module, you will be able to:

- Describe the benefits of Windows Forms.
- Use the new properties and methods of Windows Forms.
- Write event-handling code.
- Use the new controls and control enhancements.
- Add and edit menus.
- Create a form that inherits from another form.

Module 7: Building Web Applications

The following topics are covered in this module:

- Introduction to ASP.NET

- Creating Web Form Applications
- Building Web Services
- Using Web Services

After completing this module, you will be able to:

- Explain and take advantage of the benefits of ASP.NET and its various libraries in application development.
- Create Web Form applications.
- Use HTML server controls and Web server controls.
- Create Web Services.
- Use Web Services from a browser or from another client application.

Module 8: Using ADO.NET

The following topics are covered in this module:

- ADO.NET Overview
- .NET Data Providers
- The DataSet Object
- Data Designers and Data Binding
- XML Integration

After completing this module, you will be able to:

- List the benefits of ADO.NET.
- Create applications by using ADO.NET.
- List the main ADO.NET objects and their functions.
- Use Visual Studio .NET data designers and data binding.
- Explain how XML integrates with ADO.NET.

Module 9: Developing Components in Visual Basic .NET

The following topics are covered in this module:

- Components Overview
- Creating Serviced Components
- Creating Component Classes
- Creating Windows Forms Controls
- Creating Web Forms User Controls
- Threading

After completing this module, you will be able to:

- Create components that can be used by managed and unmanaged client applications.
- Create serviced components.
- Create component classes.
- Create Windows Forms controls.
- Create Web user controls.
- Use threading to create multithreaded applications.

Module 10: Deploying Applications

The following topics are covered in this module:

- Describing Assemblies
- Choosing a Deployment Strategy

- Deploying Applications

After completing this module, you will be able to:

- Describe an assembly.
- List the different types of application deployment.
- Deploy a component assembly.
- Deploy an application based on Windows.
- Deploy a Web-based application.

Module 11: Upgrading to Visual Basic .NET

The following topics are covered in this module:

- Deciding Whether to Upgrade
- Options for Upgrading
- Recommendations
- Performing the Upgrade

After completing this module, you will be able to:

- Make an informed decision about whether to upgrade an application.
- Describe the various upgrade options available to you.
- Use the Upgrade Wizard

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