



# Developing Microsoft .NET Applications for Windows (Visual Basic .NET)

M2565

5 day

## Overview :

This five-day instructor-led course provides delegates with the skills required to build Microsoft® Windows® Forms applications by using the Microsoft .NET Framework. This course is a part of the Microsoft Visual Basic .NET curriculum and is intended to provide Visual Basic programmers with the skills required to create Windows Forms applications by using the .NET Framework. The course will cover the major topics for Windows client application programming on the .NET Framework. These topics include: Windows Forms, GDI+, simple data access, interoperating with unmanaged code, threading and asynchronous programming issues, simple remoting, Web access, XML Web services consumption, debugging, security, and deployment issues for desktop applications.

## Target Audience :

This course is intended for the programmer who is responsible for designing and building Windows-based applications with the .NET Framework. It is designed for developers who have Visual Basic development skills.

## At the end of the course, delegates will be able to:

- Create, populate & organise controls on Windows Forms.
- Create menus, add code and control event procedures in a Windows Forms application.
- Create Multiple Document Interface (MDI) applications.
- Use dialog boxes in Windows Forms applications.
- Validate user input in a Windows Forms application.
- Create and use user controls in a Windows Forms application.
- Create licenses for controls.
- Bind Windows Forms applications to data sources by using Microsoft ADO.NET.
- Consume XML Web services from Windows Forms applications.
- Use .NET and COM components in a Windows Forms application.
- Call Microsoft Win32® APIs from a Windows Forms application.
- Migrate Visual Basic 6.0 applications to Visual Basic .NET.
- Print documents in a Windows Forms application.
- Make asynchronous calls to methods from a Windows Forms application.
- Debug a Windows Forms application.
- Incorporate accessibility features in a Windows Forms application.
- Localize a Windows Forms application.
- Add support for Help to localize a Windows Forms application.
- Create Help files in a Windows Forms application.
- Deploy a Windows Forms application.
- Implement code access and role-based security in a Windows Forms application.
- Add deployment flexibility to applications by using shared assemblies.

## Course Content :

### Introducing Windows Forms

- Creating & Adding Controls to a Form
- Creating an Inherited Form
- Organizing Controls on a Form
- Creating MDI Applications

### Working With Controls

- Creating an Event Handler for a Control
- Using Windows Forms Controls
- Using Dialog Boxes in a Windows Forms Application
- Adding Controls at Run Time
- Creating Menus & Validating User Input

### Building Controls

- Extending and Creating Controls
- Adding Design-Time Support for Controls
- Licensing a Control

### Using Data in Windows Forms Applications

- Adding ADO.NET Objects to and Configuring ADO.NET Objects in a Windows Forms Application
- Accessing and Modifying Data by Using DataSets
- Binding Data to Controls
- Overview of XML Web Services
- Creating a Simple XML Web Services Client

### Asynchronous Programming

- The .NET Asynchronous Programming Model and Design Pattern
- How to Make Asynchronous Calls to Any Method
- Helping to Protect State and Data in a Multithreaded Environment

### Enhancing the Usability of Applications

- Adding Accessibility Features
- Adding Help to an Application
- Localizing an Application

### Deploying & Securing Windows Forms Applications

- NET Assemblies
- Deploying Windows Forms Applications
- Security in the .NET Framework
- Using Code Access Security
- Using Role-Based Security

### Printing and Reporting in Windows Forms Applications

- Printing From a Windows Forms Application
- Using the Print Preview, Page Setup, and Print Dialogs
- Constructing Print Document Content by Using GDI+
- Creating Reports by Using Crystal Reports

### Interoperating with Managed Objects

- Using .NET and COM Components in a Windows Forms Application
- Calling Win32 APIs from Windows Forms Applications
- Upgrading Visual Basic 6.0 Applications to Visual Basic .NET

**Course Prerequisites :**

Delegates are required to meet the following prerequisites:

- Experience with a .NET language such as Visual Basic .NET
- Experience developing basic applications with MFC and/or Microsoft Visual Basic 6.0.
- Completion of M2559—Introduction to Visual Basic .NET programming or Equivalent knowledge

**Testing and Certification :**

Recommended as preparation for exam(s):

- Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio® .NET (Microsoft Exam 70-306)

**Follow on Courses :**

The following courses are recommended for further study:

- M2373
- M2389

**Further Information :**

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