

## Course Overview

In this 5-day course, you will learn Visual Basic .NET to create graphical user interface applications. You will learn how to create a user interface in a Windows Forms application. You will also learn how to work with data and variables. You will learn how to control program flow by writing code that reacts to specific situations and produces the correct results for the situation. You will also learn how to work with classes to define new types of objects. You will learn how to enhance user interface functionality by adding form components. You will also learn how to deploy your application so that it runs on other computers. Finally, you will learn how to create Web applications such as Web Forms and Web Services.

## Course Preparation

Prerequisite experience: solid foundation for working with Visual Studio.NET to create .NET projects.

This course is designed for programmers who have written code for at least three months using a procedural language (such as Fortran, Pascal, C, or Cobol) or an object-oriented programming language (such as Java, C++, Delphi, or Powerbuilder).

## Course Topics

### Creating a User Interface in a Windows Forms Application

- Determine Form Properties
- Determine Form Controls
- Determine Control Properties
- Manipulate Grouped Controls
- Write Event Procedures

### Working With Data and Variables

- Declare Variables and Constants
- Determine and Set Scope
- Perform Mathematical Calculations
- Create an Array
- Create a Structure to Implement a Custom Data Type
- Create a Collection
- Create an Enumeration

### Controlling Program Flow

- Implement a Standard Module
- Manipulate Forms
- Create Functions
- Create Sub Procedures
- Write Decision Structures
- Write Loop Statements
- Debug Logic Errors
- Validate Data
- Implement Structured Exception Handling

### Working with Classes

- Create a Class
- Create a Property Procedure
- Create a Method
- Create and Handle a Custom Event
- Set an Object's Initial Values Using a Constructor
- Implement Overloading
- Write Sharable Code
- Create a Class Using Inheritance
- Provide Polymorphism Through Inheritance

### Enhancing User Interface Functionality

- Add a Menu to a Windows Form
- Add Dialog Box Controls
- Add a Toolbar
- Add a Status Bar
- Create a Form Using Visual Inheritance
- Create a User Control
- Retrieve Data from an External Data Source
- Manipulate Data in a Windows Forms Application
- Create an Application Configuration File

### Deploying Your Application

- Create a Deployment Project
- View Metadata
- Create and Deploy a Shared Assembly

### Creating Web Applications

- Create a Web Forms Application
- Create a Web Service Application
- Consume a Web Service Application

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