



Visual Basic .NET: Introduction

Overview: Students will learn Visual Basic .NET to create graphical user interface applications.

Prerequisites: Visual Studio .NET Introduction or equivalent knowledge.

Course Length: Three Days, 9:00 a.m. – 4:00 p.m.

Course Content

Lesson 1: Creating a User Interface in a Windows Forms Application

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

Lesson 2: 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

Lesson 3: 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

Lesson 4: 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



Lesson 5: 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

Lesson 6: Deploying Your Application

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

Lesson 7: Creating Web Applications

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