
Visual Basic Programming (version 2005)

Objectives

This course aims to increase your productivity by providing the skills and knowledge to use Visual Basic effectively.

Pre-Requisites

This course is designed for participants with little or no knowledge of Visual Basic, but who have a solid grounding in Microsoft Office products or similar.

Duration

2 Days.

Course Outcomes

1. Start Visual Basic 2005 and work with its IDE
2. Create a simple and complete project using Visual Basic 2005
3. Design efficient computer applications
4. Create a main form for a new application
5. Use a form to perform and display calculations
6. Create more complex multiple choice forms
7. Use text files in your application to save and retrieve data
8. Print data from a Visual Basic 2005 application
9. Understand the use of and work with arrays
10. Use rich text in your applications
11. Create an About form for your applications

Course Content

Visual Basic 2005 Essentials

- Understanding Visual Basic 2005
- Starting Visual Basic 2005
- Understanding the IDE
- Using the View Command
- Working with Tabbed Windows
- Floating and Dockable Windows
- Auto Hiding Windows

Creating a Simple Project

- Creating a New Project
- Understanding the Screen
- Running a Project
- Adding a Button Control
- Modifying a Click Event
- Saving a Project
- Understanding Project Files
- Exiting From Visual Basic 2005
- Opening an Existing Project

Designing a Computer System

- Microsoft Solutions Framework
- Envisioning our Case Study
- Planning our Case Study
- Mocking the System
- The Case Study

Creating the Main Form

- Creating the Case Study Project

- Changing the Name Of The Form
- Changing the Caption Of A Form
- Resizing a Form
- Changing the Background Colour
- Inserting a Picture On A Form
- Resizing and Relocating A Picture
- Placing Text on Forms
- Formatting Text
- Running the Case Study Project
- Saving the Case Study Project
- Adding a MenuStrip Control
- Creating the Menu Bar Options
- Creating Pulldown Menus
- Editing MenuStrip Items
- Closing a Form With Code

Performing Calculations in Forms

- The Plan for Our Form
- Opening an Existing Project
- Adding a Form
- Aligning Controls
- The DateTime Picker Control
- Control Naming Conventions
- TextBox Controls
- Button Controls
- Adding Code to Close a Form
- Calling a Subsidiary Form
- Understanding Variables

- Data Types for Variables
- Writing Programming Code
- Creating the Calculation Code
- Testing the Calculations
- Code Walkthrough
- Preloading Form Fields
- Changing Labels
- Creating Constants

Multiple Choice Forms

- Setting up The Form
- The Group Box Control
- The CheckBox Control
- Copying and Pasting Controls
- Adding a Panel Control
- The Radio Button Control
- Completing the Form Design
- Programming the Clinics Form
- Adding Constants
- Creating a Sub Procedure
- Code Walkthrough
- Calling a Sub Procedure
- Testing the Clinics Form
- Creating Informative Labels

Tabs and Lists

- The Plan
- Setting up The Form
- Adding a Tab Control To A Form
- Modifying Tabs
- The Combo Box Control
- Adding More Objects
- The List Box Control
- Programming For the List Box
- Sub Procedures with Parameters
- Parameter Code Walkthrough
- Moving Items up A List
- Moving Items down A List
- Move Code Walkthrough
- Deleting a List Item

Working with Text Files

- Saving and Retrieving Data
- Saving Data Programmatically
- Creating a Function
- How Functions Work
- Calling a Function
- Creating a Save As Dialog Box
- Showing a Save As Dialog Box
- Save as Code Walkthrough
- Using the StreamWriter
- The WriteFormData Procedure
- Using a Save As Dialog Box
- Write to File Code Walkthrough
- Clearing the Form
- Creating a File Open Dialog Box
- Showing a File Open Dialog Box
- Retrieving Data Programmatically
- The ReadFileData Procedure
- The LoadFieldIntoForm Procedure

- String Conversion Functions
- File Open Code WalkThrough
- Using the File Open Dialog

Printing

- Understanding Printing
- Setting up The Memberships Tab
- Loading Boxes from A Text File
- Combo Box Code Walkthrough
- Creating the Text File
- Creating Print Dialog Controls
- Creating the Print Renderer
- Writing the Print Code
- Coding a Date Validation
- PrintPage Event Code
- Walkthrough

Arrays

- The Plan for Our Array Form
- Setting up The Array Form
- Adding Display Controls
- Adding a Multiline Text Box
- Understanding Arrays
- Adding Arrays to The Code
- Loading Array Values
- Interactively Updating The Controls

Rich Text

- The Plan for Our Rich Text Form
- Setting up The Rich Text Form
- The Rich Text Control
- Filling a Rich Text Box

Creating an About Form

- Creating the Initial Form
- Running AN About Form
- Changing About Box Values
- Changing the Picture

Packaging the Application

- Creating a Module
- Changing the Scope Of Constants
- Working with Regions
- Creating Code Regions
- Publishing a Project

Using the Publish Wizard