Course Outline

Programming Fundamentals of Visual Basic - Level 1

Course Description:

This course is designed for developers who are moving to Visual Basic with some understanding of basic programming concepts. You will learn Visual Basic syntax, event-driven programming, and how to compile an application with the native code compiler. You will learn the VBA language, handle run-time errors, debug, work with forms and controls, and add simple database support to your applications.

Pre-requisites:

Programming experience in a high-level language and the ability to use Microsoft Windows.

Course Content:

- **Your First Visual Basic Program**
  - Welcome To Visual Basic!
  - A Simple Project
  - Using the Application Wizard

- **Adding Controls to Forms**
  - Visual Basic Controls
  - Creating and Manipulating New Controls
  - Changing Design Time Control Properties
  - Visual Basic Built-In Controls
  - Control Design Tips

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- **Understanding Events**
  - Introducing Events
  - Event Procedures
  - The Form Load Event
  - The Form Resize Event
  - Command Button Click Event
  - Text Box Change Event
  - The Timer Control's Timer Event
  - GotFocus/LostFocus Events

- **Working with Forms and Controls**
  - Setting Properties at Run Time
  - Setting Form and Control Properties
  - Using ActiveX Controls
  - Adding ActiveX Controls to a Project
  - Using the Monthview ActiveX Control
  - Extra ActiveX Samples

- **Creating and Using Menus**
  - Menus in Visual Basic
  - Using the Menu Editor
  - Working with Menus
  - Manipulating Menus at Run Time
  - Reusing Menus
  - Creating Popup Menus

- **Compiling and Distributing Applications**
  - Finishing Touches
  - Project Properties
  - Native Code vs. p-code
  - Creating Your Executable
  - Using the Package and Deployment Wizard

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- **Working with VBA**
  - Creating a Simple Procedure
  - Variables and Parameters
  - Data Types
  - Using Constants
  - Investigating Built-In Functions
  - Branching Structures and Looping Structures

- **Handling Errors**
  - Handling Syntax Errors
  - Handling Run-Time Errors
  - The Error Handling Standard
  - Taking a Closer Look
  - Who Handles Errors?

- **Debugging Applications**
  - Handling Logic Errors
  - Watch Expressions
  - The Call Stack
  - The Debugging Process

- **More VBA Issues**
  - Scope, Lifetime, and Precedence
  - Passing by Value and by Reference
  - Arrays
  - Optional Arguments

- **More Form and Control Issues**
  - Using Multiple Forms
  - List Boxes Revisited
  - Control Arrays

- **Adding Simple Database Support**
  - Support for Data Access in Visual Basic 6.0
  - Using the ADO Data Control
  - Binding Controls to Data
  - Writing Code for the Data Control

Course Outline

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Course Duration: 3 Days