Course duration

3 days

Course Benefits

- Identify and describe the purpose of various components of the Visual Basic programming environment.
- Build and run a small application.
- Use the code editing tools in the Code Editor window to write conditional statements and other code constructs.
- Isolate, identify, and correct logic, compile, and run-time errors in a Visual Basic application.
- Develop multiple-form applications.
- · Declare variables and constants.
- Examine and discuss Sub and Function procedures, and pass arguments by value and by reference.
- Create application interfaces with standard and custom controls.
- Build common and pop-up menus into an application.
- Write an error-handling routine.
- Create an application by using the VB Application Wizard, and create, install, and remove a setup program.
- Use the data control to access a database table and discuss the features of an MDI environment.

Course Outline

- 1. Introduction to Visual Basic Programming
 - 1. What Is Visual Basic?
 - 2. Terminology
 - 3. Steps to Create an Application
 - 4. Modular Environment
- 2. Building an Application
 - 1. Setting Properties of Objects
 - 2. Forms
 - 3. Introduction to Controls
 - 4. Object-based, Event-driven Programming
- 3. Coding
 - 1. The Code Editor
 - 2. Using the Object Browser to View Properties and Methods of Objects
 - 3. Statements and Functions
 - 4. Conditional Statements

- 5. Looping Statements
- 6. Native Code
- 4. Debugging
 - 1. Overview
 - 2. Forms
 - 3. Showing and Hiding Forms
 - 4. Order of Events
 - 5. Multiple Forms
 - 6. Startup and End of Applications
- 5. Variables
 - 1. Data Types
 - 2. Scope and Lifetime of Variables
 - 3. Constants
 - 4. Arrays and User-defined Types
- 6. Procedures
 - 1. Introduction to Procedures
 - 2. Arguments and Parameters
 - 3. Named Arguments and Optional Arguments
- 7. Controls
 - 1. Control Formatting
 - 2. Standard Controls
 - 3. Custom Controls
- 8. Menus
 - 1. Creating and Coding Menus
 - 2. Custom Pop-up Menus
- 9. Error Handling
 - 1. An Introduction to Error Handlers
- 10. Wizards
 - 1. The Package and Deployment Wizard
 - 2. Application Wizard
- 11. The Next Step
 - 1. Data Access Using the Data Form Wizard and the Data Control
 - 2. MDI Forms
 - 3. Classes
 - 4. An Introduction to ActiveX Controls within Visual Basic

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following is required for this VBA class:

• Familiarity with the Windows environment and some programming experience