

Course Aims:

This course is design to provide programmers with the essential skills and knowledge necessary to allow them to become competent in developing advanced VB applications.

Course Outline:

Programming in VB - review :

- Procedures & Functions
- Arguments
- GoTo statement
- If statement
- Logical Operators
- Select Case statement
- Loop statements
- With statement
- Error trapping
- Comments

Object Variables:

- Arrays of object variables
- Creating control arrays
- Adding & removing elements at run time
- Control array events
- Saving code using control arrays

Code Modules:

- Inserting code modules
- Module Design

Collections:

- The Add method
- The Item method
- Iterating with For Each

Menus:

- The Menu editor
- Design considerations
- Menu Arrays
- Pop Up menus
- Menus using the Application Wizard

The Data Control:

- Types of data control
- Referencing the ADO data control
- Properties & methods of the ADO data control
- Binding data to the control
- DBListboxes, DBComboboxes
- The DBGrid control

Treeview & Listview controls:

- Treeview control
- Listview control

File I/O:

- Sequential (text) files
- Binary files
- File management
- The FileSystemObject

Error Handling

Multiple Form Applications:

- Form Events
- Dynamic creation of forms
- Form templates
- MDI Applications
- MDI Parent forms
- MDI Child forms
- Menus & toolbars in MDI applications
- Coding MDI Applications

Advanced Dialog Boxes:

- The CommonDialog control
- Custom dialog boxes

Creating an executable file

OO Programming in VB:

- The OO Paradigm
- Class Modules
- The VB Class builder
- Object initialisation & termination

More Databases:

- The VB Data Environment

Windows API:

- Declaring API functions
- Calling API functions

.INI files

Windows registry:

- Overview of the Windows registry
- GetSetting & SaveSetting

ActiveX OLE Server Objects:

- ActiveX projects
- Instancing
- Events

ActiveX Controls:

- Persistent Properties
- Raising events
- Property Pages
- Custom Control methods
- Data aware controls

Reporting:

- The Printers collection
- The Printer object
- Data Report Designer
- Crystal Reports

Target Audience:

Systems and applications programmers who will be developing systems in VB. Anyone who wants a practical understanding of VB will benefit from this course. It is suitable for software engineers who want to expand their knowledge in a powerful all-purpose language and managers who want to manage VB programming projects.

Assumed Knowledge:

Participants should have a basic knowledge of programming techniques and a knowledge of programming in VB equivalent to the VB introduction course.