

Course overview:

Excel VBA



Overview and objectives

This content has been designed for a two day classroom course. On course completion, students will be able to:

- Use Visual Basic for Applications terminology; start Visual Basic Editor; work with object properties, methods and events; execute code by using a button; and use the Object Browser
- Manipulate data by declaring variables and procedures of current scope to be used when and where you need them
- Use decision structures to perform decision tasks and loop structures to perform repetitive tasks
- Add a user form to your project, add controls to it, handle events associated with form controls, and validate data entry on forms
- Identify errors in code, use the debugging tools and write error-handling code to trap errors

This course will help students to become proficient application developers by using the features of Microsoft Excel and Visual Basic for Applications.

Who should attend?

Students should have familiarity with personal computers and the use of the keyboard and mouse. They should have completed Level 1, 2 & 3 courses in Excel or have equivalent practical experience.

Getting Started

Introducing Visual Basic for Applications
Recording, running and editing a macro
Understanding the development environment
Understanding objects
Navigating the Excel object
Working with Statements, properties, events and methods

Working with Procedures and Functions

Understanding and Creating a standard module; sub procedures and functions procedures

Using Expressions, Variables and Functions

Understanding expressions and statements
Declaring variables, data types, scope of variables, Constants ,using spreadsheet functions.
Using message boxes
Using input boxes
Declaring and using object Variables

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Controlling Program Execution

Understanding control-of-flow structures

Working with Boolean expressions, Using if, Case; do loop, for next structures

Guidelines for use of control-of-flow structures

Working with Forms and Controls

Using the toolbox

Working with User Form properties, events and methods, controls and properties

Understanding controls, using Label; text box; Command button; option button; combo box and frame controls

Setting the tab order

Populating a control

Adding code to controls

Launching a form in code

Debugging Code

Understanding errors and debugging tools

Setting breakpoints and stepping through code

determining the value of expressions

Handling Errors

Understanding error handling and trapping – on error statement

Understanding the error object