

## Excel 2003; VBA Programming, 2nd Edition

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**Version:** 2

**Course Length:** 1-day (6+ hours)

**Prerequisites:** VBA programming for MS Applications

**What's in Excel 2003; VBA Programming, 2nd Edition:**

This ILT Series manual for Excel 2003: VBA Programming is designed to give proficiency to create procedures that run in response to specific events, create user forms to accept or display data, validate the data entry in user forms, and debug and handle errors in code.

**Objectives:**

- Use the Visual Basic for Applications (VBA) terminology and start Visual Basic Editor (VBE), work with object properties and methods and attach code to events and buttons, and use the Object Browser to get information about objects.
- Use the variables of relevant data types, manipulate data by using expressions, get input from the user, declare and use variables of correct scope, declare and use procedures of correct scope, create Sub and Function procedures, and call one procedure from another.
- Use decision structures to create procedures that execute code based on specific conditions and use loop structures to execute specific code repeatedly.
- Add a user form to your project and add controls to the user form, handle events attached to controls in a user form and validate the data entry in the controls.

### Topic-Level Outline

#### Unit 1 : Visual Basic Editor

*Topic A: \* Visual Basic for Applications*

A-1: Discussing VBA

A-2: Examining the VBE window

*Topic B: \* Object Programming*

B-1: Examining the Properties window

B-2: Changing the object properties

B-3: Using code to change object properties

B-4: Using a method

B-5: Associating VBA code with an event

B-6: Executing VBA code by using a button

*Topic C: \* The Object Browser*

C-1: Examining the Object Browser

C-2: Searching in the Object Browser

#### Unit 2 : Programming basics

*Topic A: \* Data*

A-1: Discussing data types and variables

A-2: Discussing and declaring variables

A-3: Using operators

A-4: Using the interaction functions

*Topic B: \* Scope of variables*

B-1: Understanding procedure and module-level scope

B-2: Understanding public scope

*Topic C: \* Scope of procedures*

C-1: Creating a Sub procedure

C-2: Calling a Sub procedure

C-3: Creating a Function procedure

C-4: Calling a Function procedure

#### Unit 3 : Control structures

*Topic A: \* Decision structures*

A-1: Using the If...Then statement

A-2: Using the If...Then...Else statement

A-3: Using the If...Then...ElseIf statement

A-4: Using the Select Case statement

*Topic B: \* Loop structures*

B-1: Using the For...Next loop

B-2: Using the For Each...Next loop

B-3: Using the Do While...Loop

#### Unit 4 : Custom dialog boxes

*Topic A: \* User forms*

A-1: Adding a user form

A-2: Adding controls to a user form

*Topic B: \* Events*

B-1: Attaching an event handler to a control

B-2: Validating data by using event handlers

#### Unit 5 : Debugging and error-handling

*Topic A: \* Errors*

A-1: Discussing types of errors

*Topic B: \* Debugging*

B-1: Discussing debugging tools

B-2: Setting a breakpoint

B-3: Adding a watch expression

B-4: Using Step Into

B-5: Deleting a watch expression

B-6: Working with the Immediate window

B-7: Working with the Locals window

*Topic C: \* Error-handling*

C-1: Using the On Error GoTo statement

C-2: Using the On Error Resume Next statement