

## Excel 2007: VBA Programming + CertBlaster

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**Version:** 2

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

**Prerequisites:** VBA programming for MS Applications

**What's in Excel 2007: VBA Programming + CertBlaster:**

This ILT Series manual 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. This instructor's edition is designed for quick scanning in the classroom, and filled with interactive exercises. Comes with CertBlaster pre- and post-assessment software (download).

### Topic-Level Outline

#### Unit 1 : Visual Basic Editor

*Topic A: \* Visual Basic for Applications*

- A-1: Discussing VBA
- A-2: Preparing Excel for VBA
- A-3: 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 basics*

- 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