

Microsoft VBA Programming for Excel 2007

Course Specifications

Course Number: 2819

Software: Microsoft Visual Basic for Applications

Course Length: 1 Day

Course Description

This course is designed to give experienced Excel 2007 users proficiency in creating procedures that run in response to specific events, working with control structures, developing user forms to accept or display data, validating the data entry in user forms, and debugging and handling errors in code.

Prerequisites: Excel 2007 Levels 1-3

Course Content

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