



Microsoft Excel 2013 VBA Macro Programming

Course Duration:

14 Hours / 2 Days

1 Getting Started

- Introduction Visual Basic for Applications
- Displaying the Developer Tab in the Ribbon
- Recording a Macro
- Saving a Macro Enabled Workbook
- Running a Macro
- Editing a Macro in the Visual Basic Editor
- Understanding the Development Environment
- Using Visual Basic Help
- Closing the Visual Basic Editor
- Understanding Macro Security

2 Working with Procedures and Functions

- Understanding Modules
- Creating a Standard Module
- Understanding Procedures
- Creating a Sub Procedure
- Calling Procedures
- Using the Immediate Window to Call Procedures
- Creating a Function Procedure
- Naming Procedures
- Working with the Code Editor

3 Understanding Objects

- Understanding Objects

- Navigating the Excel Object Hierarchy
- Understanding Collections
- Using the Object Browser
- Working with Properties
- Using the With Statement
- Working with Methods
- Creating an Event Procedure

4 Using Expressions, Variables, and Intrinsic Functions

- Understanding Expressions and Statements
- Declaring Variables
- Understanding Data Types
- Working with Variable Scope
- Using Intrinsic Functions
- Understanding Constants
- Using Intrinsic Constants
- Using Message Boxes
- Using Input Boxes
- Declaring and Using Object Variables

5 Controlling Program Execution

- Understanding Control-of-Flow Structures
- Working with Boolean Expressions
- Using the If...End If Decision Structures
- Using the Select Case...End Select Structure
- Using the Do...Loop Structure
- Using the For...To...Next Structure
- Using the For...Each...Next Structure
- Guideline for use of Control-of-Flow Structures

6 Working with Forms and Controls

- Understanding UserForms
 - Using the Toolbox
 - Working with UserForm Properties, Events, and Methods
 - Understanding Controls
 - Setting Control Properties in the Properties Window
 - Working with the Label Control
 - Working with the Text Box Control
 - Working with the Command Button Control
 - Working with the Combo Box Control
 - Working with the Frame Control
 - Working with the Option Button Controls
 - Working with Control Appearance
 - Setting the Tab Order
 - Populating a Control
 - Adding Code to Controls
 - Launching a Form in Code
- #### 7 Working with the PivotTable Object
- Understanding PivotTables
 - Creating a PivotTable Using Worksheet Data
 - Working with PivotTable Objects
 - Working with PivotFields Collection
 - Assigning a Macro to The Quick Access Toolbar
- #### 8 Debugging Code
- Understanding Errors
 - Using Debugging Tools

- Setting Breakpoints
- Stepping through Code
- Using Break Mode during Run mode
- Determining the Value of Expressions

9 Handling Errors

- Understanding Error Handling
- Understanding VBA's Error Trapping Options
- Trapping Errors with the On Error Statement
- Understanding the Err Object
- Writing an Error-Handling Routine
- Working with Inline Error Handling