

Excel VBA Course – 2 Day

Recording Macros

- Recording a Macro
- Recording a Macro Using Relative References
- Useful Navigation and Selection
Shortcut Keys to Use When Recording Macros
- Recording Techniques For Macros That Need to Work Regardless of the Number of Columns or Rows
- Editing a Recorded Macro in the VBA Editor

Running and Storing Macros

- Saving Macro Enabled Excel files
- Where to Store Macros
- Macro Security
- Customising the Quick Access Toolbar and Ribbon with Macro Buttons
- Adding Form Buttons to a Sheet

Intro to VBA

- What is VBA?
- Understanding Parts of Speech: Objects, Collections, Methods, Parameters and Properties
- Application Methods and Properties
- Window/s Methods and Properties
- Workbook/s Methods and Properties
- Worksheet/s Methods and Properties
- Range Methods and Properties
- Chart/s Methods and Properties

Working With Ranges

- Referencing Cells/Ranges
- CurrentRegion
- The End Property
- Offset
- Resize
- Intersect
- UsedRange
- SpecialCells
- Areas
- Rows and Columns
- Copy/Move
- Formatting Cells and Values



Working With Worksheets

- Activate Worksheet
- Create New Worksheet
- Delete a Worksheet
- Name a Worksheet
- Copy/Move Worksheet
- Group Worksheets
- Hide Worksheets
- Protect Worksheets

Working With Workbooks

- Open/Close Workbook
- Save Workbook
- Delete Workbook
- Protect Workbook
- Add Named Reference Within a Workbook

Working With Charts

- Create an Embedded Chart
- Delete a Chart
- Create a Chart On a Chart Sheet
- Apply Chart Style
- Colour a Chart
- Position and Size a Chart
- Add Titles and Other Chart Elements

Variables & Constants

- Naming Variables
- Declaring a Variable's Data Type
- Option Explicit
- Scoping Variables
 - Local
 - Module-wide
 - Public
 - Static Variables
- Life of a Variable
- Assigning Values to Variables and Object Variables
- Constants

Programming Flow

- If Then Else, Elseif
- Select Case

Creating Loops

- For Each Next - Looping Through Workbooks, Worksheets & Ranges
- For Next Loops
- Do Loops - Do Until, Do While, Exit Do

Events

- Workbook Events
- Worksheet Events
- OnKey Events



Interactivity

- MsgBox
- InputBox
- Application.InputBox
- Designing Userforms

Function

- Worksheet Functions
- VBA Functions
- User Defined Functions

Debugging and Error Handling

- Types of Errors
 - Syntax Errors
 - Compile Errors
 - Run-time Errors
- Stepping Through Code
- Setting Breakpoints
- Using the Immediate Window
- Setting Watches and Using the Watch Window
- Using the Locals Window
- Error Trapping and Handling
 - On Error Resume Next
 - On Error Goto
 - Specifying Error Handling for Different Run-time Error Numbers

