

# Microsoft Excel Programming with VBA

**Course Duration: 3 Days**

**Course Price: £975 Per Person | One to One £1075**

**Onsite Price from: £1755 for 2 Delegates | Additional Delegates £100 Per Person, Per Day**

## Macro Recorder

- ... Discuss Excel VBA Macros
- ... Discuss the Excel Object Model
- ... Create Macros using the Macro Recorder
- ... Absolute and Relative References
- ... Run a Recorded Macro
- ... View Macro Security Settings

## Accessible Macros

- ... Add Macro Commands to the Quick Access Toolbar (QAT)
- ... Add Command Buttons to your Worksheet
- ... Add Macro Commands to a New Ribbon Tab

## Visual Basic Editor (VBE)

- ... Discuss the VBE Interface
- ... Discuss Subroutines and Function Procedures
- ... Edit a Recorded Macro
- ... Create Storage Modules
- ... Create a Subroutine Procedure
- ... Step through Procedures
- ... Using a Break Point

## Variables and Constants

- ... VBA Data Types
- ... Introduce Variables
- ... Declare and Initialise Variables
- ... Use the MsgBox Function
- ... The Locals Window

## User Defined Functions (UDFs)

- ... Create UDFs
- ... Work with Function Arguments
- ... Use the Insert Function Dialogue Box
- ... Display the UDF Description
- ... Distribute your Code using an Add-in File

## VBA Components

- ... Operators and Expressions
- ... Implicit and Explicit Declarations
- ... Variable Scope - Procedural, Modular or Public
- ... Pass Variables by Value / Reference
- ... Understand Arrays
- ... Objects, Collections, Properties and Methods
- ... VBA and Excel Worksheet Functions

## Looping Data

- ... For Next Loop
- ... Do Until and Do While Loops
- ... For Each Loops with Collections

## Worksheets and Workbooks

- ... Add Sheets
- ... Rename Sheets
- ... Workbook Objects and Methods
- ... Create a New Workbook
- ... Save and Close a Workbook

## **Error Handling**

- ... Types of Errors
- ... Debug Code
- ... The Immediate Window
- ... On Error Statement
- ... The Call Stack

## **User Forms**

- ... Create a user form
- ... Add Form Controls
- ... Set Properties for Forms and Controls
- ... Assign Data to Combo and List Boxes
- ... Create Event Code for Controls
- ... Initialise the Form
- ... Close the Form

## **File Management**

- ... Open and Save Files
- ... Copy, Move and Delete Files
- ... Change Folders
- ... Open and Save As Dialogue Boxes

## **Presenting Data**

- ... Apply Conditional Formatting
- ... Charts
- ... Pivot Tables