

The Excel Programming with VBA class concentrates on practical automation of repetitious Excel tasks and reports. By the end of the Excel training course, you will feel confident in writing macros to automate your tasks even if the data is not consistently formatted, creating custom Excel applications and environments, and creating custom Excel Add-ins to increase the functionality of the program. This class is perfect for those consistently working with Excel who need to automate repetitive tasks.

### I. Macros

- i) What are macros
- ii) How to record macros
- iii) How to run macros
- iv) How Macros are related to VBA

### II. VBA Editor

- 1) What is VBA
- 2) How to edit VBA Code
- 3) What is a “sub” routine
- 4) What is Project Explorer

### III. How to turn on Project Explorer

- 5) Excel Objects and Modules
- 6) What are Excel Objects
- 7) What are Modules
- 8) Making a sheet hidden

### IV. Comments

- 9) What are comments
- 10) How are comments marked
- 11) The importance of comments

### V. Debugger

- 12) What is the debugger
- 13) How is it used
- 14) Step into
- 15) Step Out
- 16) Play
- 17) Reset
- 18) Step over
- 19) Play
- 20) Breakpoint
- 21) Monitoring values

### VI. Strings

- 22) How to Reference a string
- 23) Concatenating strings

### VII. Declaring Variables

- 24) What are Variables
- 25) How to declare variables
- 26) Using “Option Explicit”
- 27) Declaring multiple variables
- 28) Requiring variable declaration

### VIII. Types of Variables

- |             |             |
|-------------|-------------|
| 29) String  | 33) Integer |
| 30) Single  | 34) Double  |
| 31) Boolean | 35) Date    |
| 32) Time    | 36) Variant |

### IX. Properties

- 37) What are Properties and their purpose
- 38) Renaming Modules
- 39) Renaming Sheets
- 40) Watch Window
- 41) What is a watch window and how to use it

### X. Rows

- 42) Selecting a specific row
- 43) Selecting the active row
- 44) Selecting the last row
- 45) Insert a row
- 46) Deleting row contents

### XI. Columns

- 47) Selecting a specific column
- 48) Selecting the active column
- 49) Selecting the last column
- 50) Insert a column
- 51) Deleting the column contents

### XII. Worksheets

- 52) Selecting a specific Worksheet
- 53) Selecting the active worksheet
- 54) Adding a new worksheet
- 55) Naming a worksheet
- 56) Range
- 57) Selecting a range of cells
- 58) Why to avoid variant declaration
- 59) When to use variant

### XIII. IF Statements

- 60) If Then Statements
- 61) If Then Else Statements

### XIV. Referencing & Manipulating Cells

- 62) Selecting a specific cell
- 63) Selecting the active cell
- 64) Setting the value of a cell
- 65) Deleting cell contents

### XV. Activating Script When Workbook Opens

- 66) Workbook\_Open
- 67) Auto\_Open

### XVI. Loops

- 68) Do While Loop
- 69) For Next Loop
- 70) For Next Loop with Step
- 71) Do Until Loop
- 72) For Each Loop