



**0208 942 5724**

Email: [Info@aspecttraining.co.uk](mailto:Info@aspecttraining.co.uk)

Web: [www.aspecttraining.co.uk](http://www.aspecttraining.co.uk)

# Microsoft Excel VBA

**Duration: 2 Days**

## Overview:

Get ready to take your Excel applications to the next level by harnessing the power of the VBA language. Aspect's Excel VBA course will help you gain more control over your spreadsheets by using VBA while also showing you how to develop more dynamic Excel applications for other users. From introductory concepts to advanced developer topics, it guides you through every aspect of Excel VBA.

Aspect's Excel VBA course is the perfect introduction to VBA and shows you how to use it to enhance Excel. You'll then learn how to work with the key objects and uncover the best ways to gain access to workbooks, worksheets, and more.

Aspect's Excel VBA course helps you to create automated spreadsheets for all those repetitive tasks. VBA can also help to simplify complex tasks that need to be performed on a regular basis. At the end of the course, users will be able to record and run macros, edit the VBA code, build in looping structures and create custom forms.

## Prerequisites:

Delegates should have proficient knowledge of Microsoft Excel or should have attended all of the following courses (or similar) prior to this course:

Aspect's Excel Introduction

Aspect's Excel Intermediate

Aspect's Excel Advance

Continued over....



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## Course Topics:

### Getting Started

Introducing Visual Basic for Applications  
Displaying the Developer Tab  
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  
Understanding Macro Security

### 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

### 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

### Using Expressions, Variables, and Intrinsic Functions

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

Declaring and Using Object Variables

### Controlling Program Execution

Understanding Control-of-Flow Structures  
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  
Guidelines for use of Control-of-Flow Structures

### 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 Control Appearance  
Setting the Tab Order  
Populating a Control  
Adding Code to Controls  
Launching a Form in Code

### Debugging Code

Understanding Errors  
Using Debugging Tools  
Setting Breakpoints  
Stepping through Code  
Using Break Mode during Run mode  
Determining the Value of Expressions

### 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