VBA Essentials Using Excel

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contact us to book

Course Duration : 2 days

Course Overview

This course is aimed at those people who find they have reached their limit with the menu items of Excel and need to modify Excel to be better suited to their environment, by creating their own functions and procedures.

Prerequisites

■ Delegates should have attended the Excel level 3 course or have equivalent knowledge. Previous use of macros would be an advantage, but is not essential.

Objectives

Delegates will be able to :
■ Go beyond the user interface of Excel into the Visual Basic for Applications component. This will allow delegates to be able to write/modify programs using Visual Basic for Applications. Delegates will be able to :
■ Control and manipulate Excel using Visual Basic Code
■ Create forms to enter data directly onto your spreadsheet
■ Write complicated macros to check spreadsheet data
■ Create functions that will perform complex calculations

Course Content

Getting Started
Introducing Visual Basic for Applications
Recording a Macro
Running a Macro
Editing a Macro in the Visual Basic Editor
Understanding the Development Environment
Using Visual Basic Help
Closing the Visual Basic Editor

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
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
Understanding Constants
Using Intrinsic Constants
Using Message Boxes
Using Input Boxes
Declaring and Using Object Variables

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...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 the Label Control
Working with: Text Box Control. Command Button Control, Combo Box Control, Frame Control and Option Button Controls
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

Other Courses in this Series

Excel_Level 1
Excel_Level 2
Excel_Level 3
Excel Analysing and Presenting Data with Dashboards and Pivot Tables
Excel PowerPivots and DAX_Introduction

Related Courses

VBA using Access
VBA using Word

Training Options

- Public scheduled courses at one of our training venues

- Private courses delivered at client's premises throughout the UK, at our training venues or a convenient third-party location

- Bespoke customised courses written to your specific needs, delivered at client's premises throughout the UK, at our training venues or a convenient third-party location

- For further information please contact us on 0191 377 8377

What's Included

- 1 delegate per computer
- Relaxed refreshment area at our training venues
- Lunch and refreshments when training is delivered at our training venue
- Comprehensive course manual and exercises