

Introduction to Excel VBA



Description

The *Introduction to VBA Programming in Microsoft Excel* course is a hands-on two-day introduction to programming using VBA in Excel. By the end of the course participants will have the essential skills required to write their own procedures and develop a simple Excel application using VBA.

Course Objectives

The principal objectives of this two-day course are to:

- Familiarize the participants with the VBA environment in Excel
- Show participants how to write their own procedures with VBA
- Demonstrate coding methods all beginning programmers should know

Who Should Attend

Any Excel user who wants to learn to program with VBA.

Pre-requisites

Intermediate Excel skills are recommended. No programming experience required.

Your Instructor

The instructor for this course is Steve Stricklen. He has over 20 years' experience programming and teaching Excel VBA.

A lively and engaging trainer, Steve has developed a learning technique that is entertaining, multi-faceted, and highly motivating.

Course Content

Recorded Macros

- Macro Recorder Overview
- Recording a Simple Macro
- Running a Recorded Macro
- Relative Recording
- Viewing the Code Module
- Modifying a Recorded Macro

Recorder Workshop

- Creating a Recorded Application
- Recording a Consolidation Macro
- Recording Divisional Macros
- Testing Recorded Macros
- Creating Buttons to Run Macros
- Assigning Macros to an Object
- The Personal Macro Workbook

User-Defined Functions

- User Defined Function (UDF) Overview
- Creating a User Defined Function
- Testing a User Defined Function
- Using a User Defined Function
- Passing Multiple Arguments
- Modifying a Function
- Creating a Function Library

Using the VBA Editor

- Overview of the VBA Editor
- Working with the Project Explorer
- Working with the Properties Window
- Using the Work Area
- Working with a Code Module
- Splitting the Screen
- Running Procedures from the Editor
- Setting Break Points
- Stepping Through a Procedure

Understanding VBA

- Overview of VBA
- Using the Immediate Window
- Working with Collections
- Setting Property Values
- Using the Object Browser

Procedures

- Overview of Procedures
- Creating a Sub Procedure
- Making Sense of IntelliSense
- Using the Edit Toolbar
- Commenting Statements
- Indenting Text
- Bookmarking in Procedures

Using Variables

- Variable Data Types
- Creating and Using Variables
- Implicit and Explicit Declarations
- The Scope of Variables
- Passing Variables
- Using Fixed Arrays
- Using Dynamic Arrays

Using Excel Objects

- Overview of the Excel Object Model
- Using Workbook Objects
- Using Worksheet Objects
- Using Range Objects
- Using Objects in a Procedure

Programming Techniques

- Understanding Programming Conventions
- Communicating with the User
- Prompting the User for Input
- Using the Input Method
- Using Control Structures
- Testing for Multiple Conditions
- Using and Testing Loops

Customizing the Ribbon

- Creating a New Ribbon Tab
- Adding Icons to the Ribbon
- Assigning Macros to Ribbon Icons
- Adding Icons to the Quick Access Toolbar
- The Personal Macro Workbook

Event Procedures

- Overview of Event Procedures
- Running Code at Start Up
- Running Code at Shut Down
- Worksheet Level Events