

# Microsoft Excel Macro - VBA Programming

## Description

VBA stands for Visual Basic for Applications. It's a programming language that enables you to control just about everything in Excel. You'll learn how to create Macros that can be run from things like a button on a spreadsheet, the Excel Ribbon - in fact, lots of places. Learning Excel VBA will enable you to do a lot more with the software than you can via the normal spreadsheet view.

Visual Basic for Applications (VBA) is the programming interface for Excel. It allows you to automate tasks and even control other applications such as PowerPoint and Access.

**At the end of this course, you will be able to automate your job tasks in Microsoft Excel.**

## Outline

### Macros

- Record a Simple Macro
- Record a Macro
- Run a Macro

### Understand the VB Editor

- Use the Menu Bar
- Use the Standard Toolbar
- Use the Project Explorer
- Use the Properties Window
- Understand the Code Window

- Understand Code Window Options
- Edit Code

### **Get Help**

- Use .CHM or .HLP Files
- Close the Visual Basic Editor

### **Work with Objects**

- Understand the Object Browser
- Understand Objects
- Understand the Objects Hierarchy
- Reference Objects

### **Understand Collections**

- Use the Editing Features
- Use the Immediate Window
- Use the Auto List
- Use Auto Quick Info

### **Work with Variables**

- Understand Variables
- Declare Variables
- Understand Data Types
- Store Values in Variables
- Store Objects in Variables

### **Create Procedures and Functions**

- Understand Procedures
- Use the Macro Recorder to Create Sub Procedures
- Call Procedures from Procedures
- Use Intrinsic Functions
- Use Message Boxes
- Use Input Boxes

### **Create Functions**

- Pass Arguments to a Function
- Work with Conditional Statements
- Understand Conditional Statements
- Work with Decision Structures
- Work with Loop Structures

## **Work with Forms and Controls**

- Understand UserForms
- Use the Toolbox
- Work with UserForm Properties
- Events and Methods
- Use the Properties Window
- Understand Controls
- Work with the Label Control
- Work with the Text Box Control
- Work with the Command Button Control
- Work with the Combo Box Control
- Work with the Frame Control
- Work with the Option Button Controls

## **Add Functionality to Forms**

- Work with Control Appearance
- Set the Tab Order
- Populate a Control
- Add Code to Controls
- Launch Forms from Procedures

## **Use Pivot Tables**

- Understand Pivot Tables
- Create Pivot Tables
- Pivot Table Arguments
- Add Fields to Pivot Tables

## **Control Forms**

- Control Pivot Tables from a Form
- Control a Form from a Custom Toolbar

**Understand Debugging**

- Understand Errors
- Debug Code
- Debug Tools
- Use the Locals Window
- Use the Watch Window
- Use Breakpoints

Attending Microsoft Advanced Excel course