

VBA MACROS SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on VBA Macros. VBA Macros use the Visual Basic Application in Excel to create custom user-generated functions and speed up manual tasks by creating automated processes. Additionally, VBA can be used to access the Windows Application Programming Interface (API).

Manual Testing

Introduction

- Introduction to Excel
- Introduction to Programming
- VBA Overview and the IDE
- Quick Review of Macros Working with Macros
- How to use Visual Basic Editor (Programming Environment)

Advantages of VBA

- An easy-to-use and versatile language
- Integrated with off-the-shelf products

Understanding the VBA Editor, Module and Procedures

- The Visual Basic Editor
- Parts of the VBA Editor
- Modules and Macros
- About VBA Forms, Sub Procedures & Modules
- Creating Forms
- Using Controls and their Properties
- Running VBA Forms in Excel

VBA Syntax and Grammar

- Objects – The Grammar
- Using Properties and Methods
- Understanding Parameters

- The Object Browser
- Understanding object hierarchy
- Tools for better coding
- Moving to Other Cells
- Editing Specific Cells

Storing Data in Variables

- How and when to declare variables
- Selecting data types
- Fixed and dynamic arrays
- Constants

Control Structure and Program Flow

- IF (Else If, Else) Select Case ()
- For Next Loop
- For Each Loop ()
- Do Until Loop and Do While Loop With, EndWith
- Nesting Code

Building Procedure

- Creating Sub and Function procedures
- Calling procedures
- Passing arguments to procedures

Building Intuitive User Interface

- Communicating with the user through the message box
- Gathering user information with the input box
- Utilizing the File Dialog object and Dialogs collections

Variables, Array, Constants

- Using the Immediate Window
- Gaining greater control through the immediate window
- Formatting Cells
- Using Variables
- Constants
- Object Variables
- Dimensioning and usage of variables
- Displaying data and obtaining data from the user

Creating Customized Dialogs with User Form Objects

- Command buttons
- List and Combo boxes
- Labels
- Option buttons
- Check boxes
- Text boxes
- Frames
- Adding more functionality with advanced ActiveX control

Fonts & Backgrounds

- Using Font Property in cells
- Using Various Background Properties in Excel VBA
- Creating a Counter
- String Handling
- Using Left, Right, Mid and Len Functions in VBA
- Range Selection and Manipulation

Objects and Collections

- Workbook and Worksheet Object
- Range Object and Cell Properties
- Methods and Properties
- Assigning Objects
- Using Name Arguments

Array

- What is Array& why use array
- Declaring an Array
- Sorting Data in Array
- 2-Dimension Array
- Dynamic Array
- UBound
- Storing Data in a range of an Array Elements
- Using various array functions

Functions

- Using Excel Worksheet Functions in VBA
- VBA Functions
- User-Defined Functions

- Adding Help to User Defined Functions
- Declaring Variables in User Defined Functions
- Using Ranges in User Defined Functions
- Creating and Managing an Add-in for User Defined Functions

Error Handling

- Run Time Error
- GoTo line
- GoTo0
- GoTo 1
- Resume Next

Internet and Excel

- Copy Hyperlinks and Text from a webpage to Spreadsheet

Interfacing with other Office Applications

- Communicating with Word and PowerPoint using Excel VBA

Running SQL Queries within Excel Environment

Modifying Menus and Toolbars

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