The Modern Excel
Macro Programming With VBA

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Programming in Excel – VBA Macro

A customizable course according to your company's requirements.

Duration

3 Days

Objectives

After Excel VBA Course you will be able to write the VBA programming and it will save your time where you can record the daily task. The primary objective is to learn how to automate your daily tasks and reports through VBA Macro Programming.

1) Getting Started with VBA Excel

2) Working with Procedures and Functions

3) Understanding Objects

4) Using Expressions, Variables, and Intrinsic Functions

5) Controlling Program Execution

6) Working with Forms and Controls

7) Working with the PivotTable Object

8) Debugging Code

9) Handling Errors

The course is totally hands-on. No theory! No PowerPoint presentation. Throughout the course you practice the skills on Excel. The exercises are based on real life data scenarios.

Pre-requisite
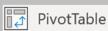
You must have worked on Excel for at least 12 months.

Outline of Macro Programming Course:

1. Getting Started with VBA Excel

- Introducing Visual Basic for Applications

- Displaying the Developer Tab in the Ribbon

- 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

- Closing the Visual Basic Editor

- Understanding Macro Security

2. 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

3. 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

4. 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 Object Variables

5. 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…To…Next Structure

- Using the For Each…Next Structure

- Guidelines for use of Control-of-Flow Structures

6. 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 the Text Box Control

- Working with the Command Button Control

- Working with the Combo Box Control

- Working with the Frame Control

- Working with Option Button Controls

- Working with Control Appearance

- Setting the Tab Order

- Populating a Control

- Adding Code to Controls
- Launching a Form in Code

7. Debugging Code

- Understanding PivotTables

- Creating a PivotTable Using Worksheet Data

- Working with the PivotTable Objects

- Working with the PivotFields Collection

- Assigning a Macro to the Quick Access Toolbar

8. 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