VBA Programming for Microsoft Excel

Duration : 3 Days

Course Content

This three-day instructor-led course provides students with the knowledge and skills to use Microsoft Visual Basic for Applications to control Microsoft Excel programmatically. The course serves as an introduction to programming using the Visual Basic programming language.

Prerequisites

An intermediate level of experience using Microsoft Excel . Familiarity with PivotTables is helpful, but not required. No prior programming experience is necessary.

Course Objectives

After completing this course, students will be able to:

- Record and edit macros.
- Use the Visual Basic Editor.
- Create and call sub and function procedures.
- Understand objects, properties, methods, and events.
- Use the Object Browser.
- Work with variables and understand data types.
- Use intrinsic functions.
- Work with control-of-flow structures.
- Design UserForms and work with controls.
- Control PivotTables programmatically.
- Use debugging tools.
- Add error handling to code.

Who Should Attend

This course is intended for experienced Excel users who are interested in creating code to automate tasks in Excel.

Course Outline

Module 1: Getting Started

- This module explains how to record and run macros.

Module 2: Working with Procedures and Functions

- This module explains how to create modules, sub procedures, and function procedures.

Module 3: Understanding Objects

- This module explains Excel objects and object properties, methods, and events.

Module 4: Using Expressions, Variables, and Intrinsic Functions

- This module explains how to name, declare, assign values to, and use variables.

Module 5: Controlling Program Execution

- This module explains how to use decision structures to control program flow.

Module 6: Working with Forms and Controls

- This module explains how to create a UserForm.

Module 7: Working with the PivotTable Object

- This module explains how to work with PivotTable objects using VBA code.

Module 8: Debugging Code

- This module explains the debugging tools in the Visual Basic Editor and their use.

Module 9: Handling Errors

- This module explains how to trap errors and write an error handling routine.