



VBA Introductory Programming - 2 days



Course Objectives

Introducing VBA programming.

Prerequisites

It is recommended that students have some programming experience.

Exercises

This course is instructor led, involving the utilisation of examples and exercises in a workshop environment.

Getting Started with VBA

- What Is VBA?
- What Products Host VBA?
- What Does a VBA Application Look Like?
- Working with VBA in a Host Product
- How Do You Make VBA Code Happen?
- Starting With VBA by Recording Macros

Writing VBA Procedures

- Overview of the Visual Basic Editor
- Working with the Project Explorer
- Creating Simple Procedures
- Understanding the Code Window
- Customizing the Visual Basic Editor

Working with Variables and Constants

- What Is a Variable/Constant?
- Data Types

Visual Basic Editor Techniques

- Writing Code Efficiently
- Taking Advantage of IntelliSense
- Optional and Named Arguments

Mastering VBA Control Structures

- Branching Structures

Creating Reusable Procedures

- Design before Code
- Writing the Same Code Once

Creating User Forms

- Working with User Forms
- Adding Controls to a User Form
- Setting Properties at Design Time
- Introducing Events
- Setting Properties at Run Time
- Working with Methods

Understanding Object Models

- Defining the Terms
- Using the Object Browser
- Working with Object Models in VBA
- Object Variables
- Special VBA Control Structures for Objects
- Working with the Office Object Models

Handling Errors

- Recognizing a Run-Time Error
- The Error-Handling Standard
- Exiting the Error Handler
- Inline Error Handling
- Combining Types of Error Handling

Debugging Your VBA Code

- Debugging Your Code
- Setting a Breakpoint
- Stepping Through Code
- Checking Values at Run Time
- Watch Expressions
- The Call Stack
- The Debugging Process

Understanding Events

- Events and Event Procedures
- Which Objects Have Events?
- User Form Events
- Control Events
- Product-Specific Events
- Is There More?

Putting It All Together

- Assembling the Pieces
- Building a Solution in Excel
- Using the Solution in Word



ACUITY TRAINING LTD

VBA Introduction



- Looping Structures

Investigating Built-In VBA Functions

- VBA's Built-In Functions
- Using the Object Browser to Find VBA Functions
- Testing Functions in the Immediate Window
- VBA Functions You'll Probably Need