

# Excel 2013/2016 Programming with VBA Course Outline

(3 days)

Version 2013/2016

#### **Prerequisite**

Proficient knowledge of Microsoft Excel. Knowledge of PivotTables helpful but not required.

#### **Getting Started**

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** 

# **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

Información: info@sdtpr.com

Matriculas: enroll@sdtonline.net

Tel: (787) 589-080

USA: (305)390-0083

Creating a Function Procedure

Naming Procedures

Working with the Code Editor

# **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

# 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 Using Object Variables

#### **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

## **Working with Forms and Controls**

**Understanding UserForms** 

Using the Toolbox

Working with UserForm Properties, Events, and Methods

Información: info@sdtpr.com

Matriculas: enroll@sdtonline.net

Tel: (787) 589-080

USA: (305)390-0083

**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

# SDT Online

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

# Working with the PivotTable Object

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

# **Debugging Code**

**Understanding Errors** 

**Using Debugging Tools** 

**Setting Breakpoints** 

Stepping through Code

Using Break Mode during Run mode

Determining the Value of Expressions

#### **Handling Errors**

**Understanding Error Handling** 

Understanding VBA's Error Trapping Options

Trapping Errors with the On Error Statement

Información: info@sdtpr.com

Matriculas: enroll@sdtonline.net

Tel: (787) 589-080

USA: (305)390-0083

Understanding the Err Object

Writing an Error-Handling Routine

Working with Inline Error Handling