



Product Code: INF798

ISBN: 978-1-921342-22-6

# Microsoft Word 2007 Programming in VBA

General Description	The skills and knowledge acquired in Microsoft Word 2007 Programming in VBA are sufficient to be able to create VBA applications in Microsoft Word 2007.
Learning Outcomes	At the completion of Microsoft Word 2007 Programming in VBA you should be able to:
	<ul> <li>understand the Word object model and VBA concepts</li> <li>work with the three main components of the VBA Editor window</li> <li>create command procedures</li> <li>create and use variables</li> <li>create and work with functions</li> <li>use decision structures to control the outcomes of your program</li> <li>use looping structures to repeat sections of code</li> <li>work with text using a range of objects</li> <li>customise the ways in which files and folders are managed</li> <li>create a custom form complete with controls and event procedures</li> <li>create code to drive a user form</li> <li>write a variety of error handling routines</li> <li>use Word's built-in dialog boxes</li> </ul>
Target Audience	Microsoft Word 2007 Programming in VBA is designed for people who need to know how to program applications for using Visual Basic for Applications.
Prerequisites	This publication assumes some familiarity with the features and capabilities of Word 2007and it would be beneficial to have a general understanding of personal computers and the Windows operating system environment.
Pages	150 pages
Approx* Duration	16.0 hrs
Course Disk	Many of the topics in Microsoft Word 2007 Programming in VBA require you to open an existing file with data in it. These files can be downloaded free of charge from our web site at www.watsoniapublishing.com. Simply follow the student files link on the home page. You will need the product code for this course which is INF798.
Methodology	The In Focus series of publications have been written with one topic per page. Topic sheets either contain relevant reference information, or detailed step-by-step instructions designed on a real-world case study scenario.
Companion Publications	There are a number of other complimentary titles in the same series as this publication. Information about other relevant publications can be found on our web site at www.watsoniapublishing.com.

<sup>\*</sup> Approximate duration should be used as a guide only. Actual duration will vary depending upon the skills, knowledge, and aptitude of the participants. This information sheet was produced on Thursday, January 15, 2009 and was accurate at the time of printing. Watsonia Publishing reserves its right to alter the content of the above courseware without notice.

# **Product Information**



Telephone: (61 3) 9851 4000 Facsimile: (61 3) 9851 4001

Web Site: www.watsoniapublishing.com





**Product Code: INF798** 

ISBN: 978-1-921342-22-6

# Microsoft Word 2007 Programming in VBA

#### **Contents**

# **Understanding VBA**

VBA Terminology
About Objects
The Object Hierarchy
Accessing The Word Object
Model
Using The Immediate Window
Working With Object Collections
Setting Property Values

# **Using The VBA Editor**

The VBA Editor

Opening And Closing The Editor Working With The Project Explorer Working With The Properties Window Working With The Work Area Working With A Code Module Running Procedures From The

# Procedures

Editor

About Procedures
Creating A Command Procedure
Making Sense of IntelliSense
Using The Edit Toolbar
Commenting Statements
Indenting Code
Bookmarking In Procedures

#### **Using Variables**

Understanding Variables
Creating And Using Variables
Implicit And Explicit Declarations
The Scope Of Variables
Procedure Level Scoping
Module Level Scoping
Passing Variables By Reference
Passing Variables By Value
Data Types
Declaring Data Types
Using Arrays
Using Intrinsic Constants

#### **Functions**

About Functions
Creating And Calling Functions
The MsgBox Function
Sending Messages To The User
Using The InputBox Function
Nesting Functions

Using Functions In Function Procedures

#### **Decision Structures**

The If...Then Statement
Using If For Single Conditions
Using If For Multiple Conditions
The Select Case Statement
Using The Select Case Statement
Using Select For Sets Of Values
Using Select For Ranges Of
Values

## **Looping Structures**

For Loops
Looping With Known Or Specified
Iterations
Looping For Each Item
Adding An Exit To A Loop
The Do...Loop Statement
Looping With Unknown Iterations

# **Working With Text**

Text And Document Components
The Story Range
The Selection Object
Using The Selection Object
The Range Object
Using Range Objects
Using Range Objects
Inserting Text
Displaying Text In A Text Box
The Find Object
Performing A Find Operation

#### **Document Management**

The Activate, Open And Close Methods Opening And Closing Documents The Add Method The Save And SaveAs Methods Creating And Saving Documents **Properties That Return** Information Functions That Return Information Getting Information Files, Folders And Drives Working With Files And Folders Displaying Files In A UserForm Removing Files And Folders The Application And Options Object

# **Creating Custom Forms**

About Custom Forms
Creating A Custom Form
Adding Text Boxes To A Form
Adding Label Controls To A Form
Changing Text Box Control
Properties
Adding A Combo Box Control
Adding Option Buttons
Adding Command Buttons
Changing The Appearance Of
Controls
Running A Custom Form

# **Programming UserForms**

Handling Form Events
Initialising A Form
Closing A Form
Creating Functions For A Form
Coding Option Buttons
Using The After Update Event
Setting Bookmarks For Data Entry
Using Bookmarks To Enter Data
Setting The Tab Order
Forcing Correct Entry
Templates And AutoStart Macros
Creating A Template With
AutoMacros

# **Error Handling**

Error Types
The On Error Statement
Creating A Simple Error Handler
Using The Resume Statement
Using Decision Structures In Error
Handlers
Using The Err Object
Error Handling In Event
Procedures
Defining Custom Errors

#### **Builtin Dialogs**

The Dialogs Collection
Dialog Box Arguments
Using The Execute Method
Using The Show Method
The Display Method
Using The Display Method
Working With Dialog Tabs
Using Dialogs With A UserForm

## **Concluding Remarks**

Your supplier is:

**Product Information**