
TABLE OF CONTENTS

1. RECORDED MACROS	1
1.1 Macro Recorder Overview	2
1.2 Recording A Simple Macro	2
1.3 Running A Recorded Macro.....	5
1.4 Relative Recording.....	7
1.5 Running A Relative Recording.....	10
1.6 Viewing The Module	11
1.7 Modifying A Recorded Macro.....	14
1.8 Recorded Macros Quick Reference.....	17
1.9 On Your Own	18
2. RECORDER WORKSHOP	21
2.1 Creating A Recorded Application.....	22
2.2 Examining The Data	23
2.3 Recording A Summation Macro	24
2.4 Recording An Averaging Macro	28
2.5 Recording The Maximum Macro.....	29
2.6 Recording The Minimum Macro.....	30
2.7 Recording Divisional Macros	31
2.8 Testing Macros	33
2.9 Creating Objects To Run Macros.....	34
2.10 Assigning A Macro To An Object.....	36
2.11 Recorder Workshop Quick Reference	38
2.12 On Your Own	39
3. USER-DEFINED FUNCTIONS	41
3.1 User Defined Function Overview	42
3.2 Creating A User Defined Function	42
3.3 Using A User Defined Function.....	44
3.4 Creating Another Function	46
3.5 Passing Multiple Arguments	48
3.6 Modifying A Function	50
3.7 Creating A Function Library	51
3.8 User-Defined Functions Quick Reference	57
3.9 On Your Own	58
4. USING THE VBA EDITOR	59
4.1 Overview Of The VBA Editor	60
4.2 Opening And Closing The Editor	60
4.3 Working With The Project Explorer.....	62
4.4 Working With The Properties Window	65
4.5 Using The Work Area.....	66
4.6 Working With A Code Module.....	69
4.7 Running Procedures From The Editor	72

4.8	Setting Break Points In The Editor.....	74
4.9	Stepping Through A Procedure	77
4.10	Using The VBA Editor Quick Reference	80
4.11	On Your Own	81
5. UNDERSTANDING VBA		83
5.1	Overview Of VBA	84
5.2	Using The Immediate Window	88
5.3	Working With Object Collections.....	90
5.4	Setting Property Values	92
5.5	Working With Worksheets.....	93
5.6	Using The Object Browser	94
5.7	Programming With The Object Browser	95
5.8	Understanding VBA Quick Reference.....	98
5.9	On Your Own	99
6. PROCEDURES		101
6.1	Overview Of Procedures.....	102
6.2	Creating A Command Procedure.....	103
6.3	Making Sense Of IntelliSense.....	104
6.4	Using The Edit Toolbar	108
6.5	Commenting Statements	109
6.6	Indenting Text	111
6.7	Bookmarking In Procedures.....	112
6.8	Procedures Quick Reference.....	113
6.9	On Your Own	114
7. USING VARIABLES		115
7.1	Overview Of Variables	116
7.2	Creating And Using Variables.....	116
7.3	Implicit And Explicit Declarations.....	119
7.4	The Scope Of Variables.....	122
7.5	Procedure Level Scoping.....	123
7.6	Module Level Scoping.....	125
7.7	Public Scoping Of Variables	127
7.8	Passing Variables By Reference	128
7.9	Passing Variables By Value.....	130
7.10	Avoiding Variant Data Types	132
7.11	Using Arrays	134
7.12	Using Variables Quick Reference	137
7.13	On Your Own	138
8. USING EXCEL OBJECTS		139
8.1	Overview Of The Excel Object Model	139
8.2	Splitting The Screen.....	140
8.3	Using Workbook Objects	141
8.4	Using Worksheet Objects	143
8.5	Using Range Objects	145
8.6	Using Objects In A Procedure.....	148

Contents

8.7	Using Excel Objects Quick Reference	150
8.8	On Your Own	151
9. PROGRAMMING TECHNIQUES		153
9.1	Understanding Programming Conventions	154
9.2	Communicating With The User	154
9.3	Prompting For User Input.....	158
9.4	Using The Input Method.....	160
9.5	Using IF To Make Decisions	162
9.6	Testing For Multiple Conditions	165
9.7	Looping A Fixed Number Of Times.....	167
9.8	Looping A Specified Number Of Times.....	169
9.9	Looping An Unknown Number Of Times	171
9.10	Programming Techniques Quick Reference	174
9.11	On Your Own	175
10. CREATING CUSTOM FORMS		177
10.1	Custom Forms Overview	178
10.2	Creating A Custom Form	179
10.3	Changing The Form Properties.....	180
10.4	Adding Text Boxes To The Form	182
10.5	Moving Controls	183
10.6	Adding Label Controls To The Form.....	184
10.7	Changing Text Box Control Properties	185
10.8	Changing Label Control Properties.....	186
10.9	Adding A Combo Box.....	188
10.10	Adding Option Buttons.....	190
10.11	Adding Command Buttons	192
10.12	Running A Form.....	193
10.13	Creating Custom Forms Quick Reference	195
10.14	On Your Own	196
11. PROGRAMMING CUSTOM FORMS		197
11.1	Overview Forms Programming	198
11.2	Initialising The Form.....	198
11.3	Closing The Form	202
11.4	Updating The List.....	203
11.5	Creating Error Checking Procedures	206
11.6	Running A Form From A Procedure	209
11.7	Programming Custom Forms Quick Reference	211
11.8	On Your Own	212
12. CUSTOM MENUS		213
12.1	Overview Of Custom Menus	213
12.2	Creating A New Menu.....	214
12.3	Creating A Cascade Menu.....	216
12.4	Adding Menu Commands	218
12.5	Assigning Macros To Menu Commands	220
12.6	Removing A Menu	221

12.7	Custom Menus Quick Reference	222
12.8	On Your Own	223
13.	AUTOMATIC STARTUP	225
13.1	Overview Of Automatic Startup.....	225
13.2	Programming Automatic Events	226
13.3	Running Automatic Procedures	228
13.4	Automatically Starting The Workbook.....	229
13.5	Automatic Startup Quick Reference.....	231
13.6	On Your Own	232
14.	CONCLUSION	233