

CONTENTS

CHAPTER 0

OVERVIEW OF TEACHING VECTORWORKS..... 9

INTRODUCTION	9
COURSE APPROACH	10
Presentation Topic	10
Hands On – Tips And Hints	11
Chapter Completion	11
Chapter Review Demonstration	12
Assignments	12
Quizzes And Extra Credit	13
COURSE DURATION	13
Intro To Computer Aided Design	14
Intro To CAD For The Built Environment	14
Learning To Draw In VectorWorks	14
Learning How To Use VectorWorks	14
Intro And Intermediate Classes	14
IN GENERAL	15

CHAPTER 1

WHAT THIS IS ALL ABOUT 17

CHAPTER OVERVIEW	17
Getting Started	17
PRESENTATION TOPIC	17
Click Drag Drawing	18
SmartCursor Cues	18
Opaque SmartCursor	18
Use Floating Datum	19
Eight Selection Handles	19
Offset Duplications	19
Snap To Loci	19
Full Screen Cursor	20
Constrain Angle	20

Snap Radius	20
2d Conversion Resolution	20
Rulers	20
Scroll Bars	21
Black Background	21
Zoom Line Thickness	21
Adjust Flipped Text	21
No Fill Behind Text	21
Show Parametric Constraints	21
Show Other Objects While In Groups	22
Display Light Objects	22
Edit Font Mappings	22
Session	22
3d	23
TIPS AND HINTS	24
REVIEW DEMONSTRATION	24
Conventions Used In This Tutorial	24
The Environment	24
Enough For Now	25
CHAPTER 1 - ASSIGNMENT #1	26
CHAPTER 1 - ASSIGNMENT #2	27
Chapter 1 - Assignment #2 Answers	28

CHAPTER 2

LET'S LEARN HOW TO DRAW	29
CHAPTER OVERVIEW	29
PRESENTATION TOPIC	29
Line Weights	29
Line Styles	30
Patterns	30
Color	30
TIPS & HINTS	31
CHAPTER COMPLETION	32
REVIEW DEMONSTRATION	33
Let's Draw	33
Looking At Objects	34
CHAPTER 2 - ASSIGNMENT 1	35
CHAPTER 2 - ASSIGNMENT 2	36
CHAPTER 2 - ASSIGNMENT 3	37

CHAPTER 3

TEMPLATE – WHAT'S THAT?	39
CHAPTER OVERVIEW	39
PRESENTATION TOPIC	39
Template Files	39
Grouped Objects	39
TIPS & HINTS	40
CHAPTER COMPLETION	41
REVIEW DEMONSTRATION	42
Creating A Standardized File	42
CHAPTER 3 - ASSIGNMENT 1	45
CHAPTER 3 - ASSIGNMENT 2	46
CHAPTER 3 - ASSIGNMENT 3	47

CHAPTER 4

CREATING OBJECTS	49
CHAPTER OVERVIEW	49
PRESENTATION TOPIC	49
Polygons Versus Other Objects	49
TIPS & HINTS	50
CHAPTER COMPLETION	51
REVIEW DEMONSTRATION	52
First The Sheet	52
Architectural Designators in 2d	52
Furniture In 3d	53
CHAPTER 4 - ASSIGNMENT 1	56
CHAPTER 4 - ASSIGNMENT 2	57
CHAPTER 4 - ASSIGNMENT 3	58

CHAPTER 5

CREATING SYMBOLS	59
CHAPTER OVERVIEW	59
PRESENTATION TOPIC	59
Walls	59
Symbols In Walls	59
TIPS & HINTS	60

CHAPTER COMPLETION	61
REVIEW DEMONSTRATION	61
Creating Symbols	61
Creating Doors	62
Creating Windows	65
Symbols From Existing Objects	66
Objects In The Object Browser	67
Placing Symbols	67
CHAPTER 5 - ASSIGNMENT 1	68
CHAPTER 5 - ASSIGNMENT 2	69
CHAPTER 5 - ASSIGNMENT 3	70

CHAPTER 6

WALLS, FLOORS, ROOFS, AND STAIRS	71
CHAPTER OVERVIEW	71
PRESENTATION TOPIC	71
Creating Layers	71
Viewing the 3d Layers	71
Sections	72
Stairs	72
TIPS & HINTS	72
CHAPTER COMPLETION	73
REVIEW DEMONSTRATION	74
Creating Architectural Elements	74
Walls	74
Floors	75
Roofs	77
CHAPTER 6 - ASSIGNMENT 1	78
CHAPTER 6 - ASSIGNMENT 2	79
CHAPTER 6 - ASSIGNMENT 3	80

CHAPTER 7

THE 3D DRAWING	81
CHAPTER OVERVIEW	81
PRESENTATION TOPIC	81
TIPS & HINTS	82
CHAPTER COMPLETION	83

REVIEW DEMONSTRATION	83
Aligning The Layers	83
Linked Layers	84
Sections	86
CHAPTER 7 - ASSIGNMENT 1	87
CHAPTER 7 - ASSIGNMENT 2	88
CHAPTER 7 - ASSIGNMENT 3	89

CHAPTER 8

WORKING WITH MULTIPLE VIEWS 91

CHAPTER OVERVIEW	91
PRESENTATION TOPIC	91
TIPS & HINTS	92
CHAPTER COMPLETION	93
REVIEW DEMONSTRATION	93
Setting Up The Multi-View Sheet	93
CHAPTER 8 - ASSIGNMENT 1	96
CHAPTER 8 - ASSIGNMENT 2	97
CHAPTER 8 - ASSIGNMENT 3	98

CHAPTER 9

MORE WALLS AND OTHER STUFF 99

CHAPTER OVERVIEW	99
PRESENTATION TOPIC	99
TIPS & HINTS	100
CHAPTER COMPLETION	101
REVIEW DEMONSTRATION	101
More Classes	102
More Roofs	103
More Symbols	103
Roof Stuff	105
Site Stuff	107
CHAPTER 9 - ASSIGNMENT 1	109
CHAPTER 9 - ASSIGNMENT 2	110
CHAPTER 9 - ASSIGNMENT 3	111

CHAPTER 10

USING VECTORWORKS	113
CHAPTER OVERVIEW	113
PRESENTATION TOPIC	113
TIPS & HINTS	114
CHAPTER COMPLETION	115
REVIEW DEMONSTRATION	115
CHAPTER 10 - ASSIGNMENT 1	117
CHAPTER 10 - ASSIGNMENT 2	118
CHAPTER 10 - ASSIGNMENT3	119