

# Table of Contents

## Introduction

About this book	Intro-1
About the Author	Intro-1
Configuring your system	Intro-2
System Requirement	Intro-8
Customizing your Wheel Mouse	Intro-10

## Lesson 1

Starting AutoCAD	1-2
AutoCAD Application Window	1-4
AutoCAD Workspaces	1-5
Application Menu Descriptions	1-6
Tooltip Help	1-20

## Lesson 2

Create a Template	2-2
Using a Template	2-6
How to select a command	2-7
Drawing Lines	2-10
Methods of selecting objects	2-13
Erase	2-14
Undo and Redo	2-15
Starting a new drawing	2-16
Opening an existing drawing	2-17
Multiple Open Files	2-18
Saving a drawing file	2-19
Back up files and Recover	2-21
Exiting AutoCAD	2-22
Exercises	2-23

## Lesson 3

Circle	3-2
Rectangle	3-4
Grid & Increment Snap	3-7
Layers	3-8
Lineweights	3-12
Exercises	3-17

## **Lesson 4**

Object snap	4-2
Running Object snap	4-6
Zoom	4-8
Drawing setup	4-10
Exercises	4-15

## **Lesson 5**

Polygon	5-2
Ellipse	5-3
Donut	5-6
Point	5-7
More object snaps	5-8
Exercises	5-9

## **Lesson 6**

Break	6-2
Trim	6-4
Extend	6-5
Move	6-6
Drag	6-7
Nudge	6-8
Explode	6-9
Exercises	6-10

## **Lesson 7**

Copy	7-2
Mirror	7-5
Mirrtext	7-6
Fillet	7-7
Chamfer	7-9
Exercises	7-11

## **Lesson 8**

Single line text	8-2
Multiline text	8-4
Mtjigstring	8-5
Tabs	8-6
Indents	8-6
Spelling Checker	8-6
Columns	8-7
Paragraph	8-9
Line spacing	8-9
Editing text	8-10
Exercises	8-12

<b>Lesson 9</b>	
Coordinate input	9-2
Absolute	9-3
Relative	9-4
Direct Distance Entry	9-6
Measure Tools	9-7
Creating a Border	9-8
Basic Plotting from Model Space	9-13
Exercises	9-17
<b>Lesson 10</b>	
Moving the Origin	10-2
Displaying the UCS icon	10-4
Exercises	10-5
<b>Lesson 11</b>	
Polar Coordinate Input	11-2
Using Polar Coordinates	11-3
Dynamic Input	11-4
Using Dynamic Input and Polar Coordinates	11-6
Polar Tracking	11-8
Polar Snap	11-10
Exercises	11-12
<b>Lesson 12</b>	
Offset	12-2
Properties Palette	12-4
Quick Properties Panel	12-6
Offsetgapttype	12-8
Exercises	12-9
<b>Lesson 13</b>	
Array	13-2
Rectangular	13-2
Polar	13-5
Exercises	13-9
<b>Lesson 14</b>	
Scale	14-2
Stretch	14-3
Rotate	14-4
Exercises	14-5

## **Lesson 15**

Hatch	15-2
Gradient Fills	15-11
Editing hatch	15-12
Exercises	15-13

## **Lesson 16**

Associative Dimensioning	16-2
Linear	16-4
Continue	16-5
Baseline	16-6
Dimension styles	16-7
Creating dimension styles	16-8
Ignoring Hatch Objects	16-15
Exercises	16-16

## **Lesson 17**

Editing dimension text values	17-2
Editing dimension position	17-3
Modify an entire dimension style	17-5
Override a dimension style	17-6
Editing an individual existing dimension	17-7
Dimension Breaks	17-8
Jog a dimension	17-11
Adjust distance between dims	17-12
Exercises	17-13

## **Lesson 18**

Dimensioning Diameters	18-2
Dimensioning Radii	18-4
Angular dimensioning	18-6
Center mark	18-7
Flip Arrow	18-8
Creating a dimension sub-style	18-9
Exercises	18-11

## **Lesson 19**

Multileader	19-2
Aligned dimensioning	19-6
Special Text Characters	19-7
Prefix and Suffix	19-8
Exercises	19-9

## **Lesson 20**

Quick dimensioning	20-2
Editing multiple dimensions	20-4
Exercises	20-6

## **Lesson 21**

Match Properties	21-2
Layer Match	21-3
Creating a Revision Cloud	21-4
Convert a closed object into a Revision Cloud	21-5
Revision Cloud Style	21-6
Wipeout	21-7
Exercises	21-8

## **Lesson 22**

Arc	22-2
Dimensioning Arc Lengths	22-3
Dimensioning a Large Curve	22-5
Exercises	22-6

## **Lesson 23**

Polyline	23-2
Exercises	23-6

## **Lesson 24**

Editing Polylines	24-2
Join	24-4
Exercises	24-5

## **Lesson 25**

Creating new text styles	25-2
How to select a text style	25-4
Delete a text style	25-5
Changing effects of a text style	25-6
Divide	25-7
Measure	25-8
Exercises	25-9

## **Lesson 26**

Model and Layout options	26-3
Model and Layout tabs	26-4
Viewports	26-6
Pan	26-10
How to Lock a viewport	26-12
How to create a page setup	26-13
Using the Layout	26-16
How to plot from the Layout	26-18
Annotative Property	26-22
Exercises	26-23

## **Lesson 27**

Creating Scaled Drawings	27-2
Adjusting the viewport scale	27-3
Annotation objects	27-4
Paper space dimensioning	27-9
Exercises	27-10

## **Lesson 28**

Assigning multiple annotative scales	28-2
How to remove Annotative scale	28-6
Annotative Hatch	28-8
Exercise	28-11

## **Lesson 29**

Blocks	
Creating blocks	29-2
Inserting	29-6
Presetting the Insertion Point, Scale or Rotation	29-7
Re-defining a block	29-8
Purging unwanted blocks	29-9
Multileader and Blocks	29-10
Collect Multileader	29-14
Exercise	29-15

## **Lesson 30**

Express Tools	
Text	30-2
Draw	30-6
Tools	30-7
Object Selection Windowing	30-8
Groups	30-9
Autodesk Cloud	30-11
Exercise	30-20

## **APPENDIX**

- A Add a Printer / Plotter
- B Metric Conversion Factors
- C Dynamic Input