
Contents

Preface.....	v
Module 1: Creating a Simple Drawing	1-1
Section 1: Getting Started with AutoCAD.....	1-2
Starting AutoCAD.....	1-3
AutoCAD’s Screen Layout	1-5
Working with Commands	1-7
Opening an Existing Drawing File.....	1-11
Saving Your Work	1-15
AutoCAD’s Cartesian Workspace	1-18
Self Check: Getting Started with AutoCAD	1-22
Section 2: Basic Drawing & Editing Commands.....	1-23
Drawing Lines	1-24
Erasing Objects	1-28
Drawing Lines with Polar Tracking	1-30
Drawing Rectangles	1-33
Drawing Circles.....	1-35
Viewing Your Drawing.....	1-39
Undoing and Redoing Actions	1-44
Self Check: Basic Drawing & Editing Commands	1-46
Command Summary.....	1-47
Project Exercises: Creating a Simple Drawing	1-48
Module 2: Making Your Drawings More Precise.....	2-1
Section 1: Drawing Precision in AutoCAD	2-2
Using Running Object Snaps	2-3
Using Object Snap Overrides.....	2-9
Polar Tracking at Angles.....	2-13
Object Snap Tracking.....	2-16
Drawing with Snap and Grid (Optional).....	2-22
Self Check: Drawing Precision in AutoCAD.....	2-25
Command Summary.....	2-26
Section 2: Making Changes in Your Drawing	2-27
Selecting Objects for Editing	2-28
Moving Objects.....	2-31
Copying Objects.....	2-33
Rotating Objects.....	2-36
Scaling Objects.....	2-38
Mirroring Objects.....	2-40
Editing with Grips	2-42

Self Check: Making Changes in Your Drawing..... 2-48
Command Summary..... 2-49
Project Exercises: Making Your Drawings More Precise..... 2-50

Module 3: Drawing Organization and Information 3-1

Section 1: Organizing Your Drawing with Layers 3-2
 Creating New Drawings With Templates 3-3
 What are Layers?..... 3-8
 Layer States 3-11
 Changing an Object’s Layer..... 3-13
 Self Check: Organizing Your Drawing with Layers..... 3-18
 Command Summary..... 3-19
Section 2: Advanced Object Types 3-20
 Drawing Arcs 3-21
 Drawing Polylines..... 3-25
 Editing Polylines 3-29
 Drawing Polygons..... 3-34
 Drawing Ellipses 3-37
 Self Check: Advanced Object Types 3-40
 Command Summary..... 3-41
Section 3: Getting Information From Your Drawing..... 3-42
 Measuring Objects..... 3-43
 Working with Object Properties..... 3-50
 Self Check: Getting Information from Your Drawing..... 3-57
 Command Summary..... 3-58
Project Exercises: Drawing Organization & Information..... 3-59

Module 4: Creating More Complex Objects 4-1

Section 1: Advanced Editing Commands 4-2
 Trimming and Extending Objects 4-3
 Stretching Objects 4-10
 Creating Fillets and Chamfers..... 4-13
 Offsetting Objects 4-18
 Creating Arrays of Objects..... 4-21
 Self Check: Advanced Editing Commands..... 4-26
 Command Summary..... 4-27
Section 2: Inserting Blocks 4-28
 What are Blocks? 4-29
 Inserting Blocks from Tool Palettes..... 4-31
 Inserting Blocks Using Insert..... 4-37
 Inserting Blocks with DesignCenter 4-40
 Self Check: Inserting Blocks..... 4-44
 Command Summary..... 4-45
Project Exercises: Creating More Complex Objects..... 4-46

Module 5: Preparing to Print	5-1
Section 1: Setting Up a Layout	5-2
Printing Concepts	5-3
Creating Viewports	5-10
Setting Up Layouts.....	5-15
Guidelines for Layouts	5-24
Command Summary.....	5-25
Self Check: Setting Up a Layout.....	5-26
Section 2: Printing Your Drawing	5-27
Printing Layouts	5-28
Printing a Check Plot.....	5-32
Command Summary.....	5-38
Self Check: Printing Your Drawing.....	5-39
Project Exercises: Preparing to Print.....	5-40
Module 6: Annotating Your Drawing	6-1
Section 1: Text	6-2
Working with Annotations	6-3
Adding Text in a Drawing.....	6-6
Modifying Multiline Text.....	6-13
Formatting Multiline Text.....	6-19
Command Summary.....	6-30
Self Check: Text.....	6-31
Section 2: Hatching.....	6-32
Hatching	6-33
Command Summary.....	6-46
Self Check: Hatching	6-47
Section 3: Adding Dimensions	6-48
Dimensioning Concepts	6-49
Adding Linear Dimensions	6-50
Adding Radial & Angular Dimensions	6-56
Editing Dimensions	6-61
Adding Notes to Your Drawing	6-68
Command Summary.....	6-76
Self Check: Adding Dimensions.....	6-77
Project Exercises: Annotating Your Drawing.....	6-78
Skills Assessment.....	7-1
AutoCAD 2008 Fundamentals Part 1 Skills Assessment.....	7-3
Index.....	8-1
Index.....	8-3