



AutoCAD: Beyond the Basics

Course Length: 2 Days

The AutoCAD: Beyond the Basics training course is designed for AutoCAD® software running on Windows. This course is not designed for AutoCAD for Mac.

The objective of AutoCAD: Beyond the Basics is to enable you to create, modify, and work with a 2D drawing in the AutoCAD software.

The AutoCAD: Beyond the Basics training course continues on from the topics covered in the AutoCAD: Essentials course. It covers more sophisticated techniques that extend your mastery of the software. For example, here you go beyond the basic skill of using a template to understand the process of setting up a template, creating annotation styles, and how to work with external references.

You learn such skills as:

- Using more advanced editing and construction techniques
- Adding parametric constraints to objects
- Creating local and global blocks
- Setting up layers, styles, and templates
- Attaching External References

The AutoCAD: Beyond the Basics course is not recommended for users that have completed the AutoCAD: Fundamentals course, as content for Beyond the Basics is already covered in the Fundamentals course.

Prerequisites:

- Knowledge of AutoCAD basics as taught in AutoCAD: Essentials, or equivalent experience.
- A working knowledge of your operating system.

Course description shown for Autodesk AutoCAD 2022. Topics, curriculum, and/or prerequisites may change depending on software version.

Learning Guide Contents

Chapter 1: Working Effectively with AutoCAD

- 1.1 Creating a Custom Workspace
- 1.2 Using the Keyboard Effectively
- 1.3 Object Creation, Selection, and Visibility
- 1.4 Working in Multiple Drawings
- 1.5 Copying and Pasting Between Drawings
- 1.6 Using Grips Effectively
- 1.7 Additional Layer Tools

Chapter 2: Accurate Positioning

- 2.1 Coordinate Entry
- 2.2 Locating Points with Tracking
- 2.3 Construction Lines
- 2.4 Placing Reference Points

Chapter 3: Projects: Productivity Tools

- 3.1 Schematic Project: Purifier Unit
- 3.2 Mechanical Project: 2 Views
- 3.3 Architectural/Civil Project: Formal Garden
- 3.4 Mechanical Project: Cover Plate
- 3.5 Architectural Project: Addition
- 3.6 Mechanical Project: Block
- 3.7 Mechanical Project: Plate

Chapter 4: Parametric Drawing

- 4.1 Working with Constraints
- 4.2 Geometric Constraints
- 4.3 Dimensional Constraints

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Chapter 5: Working with Blocks

- 5.1 Creating Blocks
- 5.2 Editing Blocks
- 5.3 Removing Unused Elements
- 5.4 Adding Blocks to Tool Palettes
- 5.5 Modifying Tool Properties in Tool Palettes

Chapter 6: Projects: Creating and Organizing Blocks

- 6.1 Mechanical Project: Control Panel
- 6.2 Architectural Project: Furniture Layout
- 6.3 Civil Project: Utility Layout

Chapter 7: Creating Templates

- 7.1 Why Use Templates?
- 7.2 Controlling Units Display
- 7.3 Creating New Layers
- 7.4 Adding Standard Layouts to Templates
- 7.5 Saving Templates

Chapter 8: Working with Layouts

- 8.1 Creating and Using Named Views
- 8.2 Advanced Viewport Options
- 8.3 Layer Overrides in Viewports
- 8.4 Annotative Scale Features

Chapter 9: Annotation Styles

- 9.1 Creating Text Styles
- 9.2 Creating Dimension Styles
- 9.3 Creating Multileader Styles

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Chapter 10: Projects: Drawing Setup and Utilities

- 10.1 Interiors Project
- 10.2 Mechanical/Schematic Project
- 10.3 Civil/Map Project
- 10.4 Mechanical Project: Dimension Styles

Chapter 11: External References

- 11.1 Attaching External References
- 11.2 Modifying External References
- 11.3 Xref Specific Information

Chapter 12: Projects: Drawing

- 12.1 D-sized Title Block (36x24)
- 12.2 Mechanical Project: Drill Press Base
- 12.3 Architectural Project: Office Tower
- 12.4 P&ID Project: Oil Lubrication System
- 12.5 Civil Project: Warehouse Site

Appendix A: Optional Topics

- A.1 Using QuickCalc
- A.2 Additional Zoom Commands
- A.3 Additional Text Tools
- A.4 Additional Dimensioning Tools
- A.5 Creating Boundaries and Regions
- A.6 Modifying Length

Appendix B: Skills Assessment

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Cancellation Policy

The following cancellation policy shall apply to all training engagements, LIVE Online, Consulting Services and Dedicated/Custom Training:

- Company reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Company, Customer is entitled to a full refund. Company shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.
- For Customer cancellations when written notice is received (i) at least ten (10) business days in advance of the class, the Customer is entitled to a full refund of its payment or reschedule enrollment, (ii) less than ten (10) business days, Customer shall not be entitled to a refund, but shall receive a class credit to be used within three (3) months of the date of the original class.
- Student substitutions are acceptable with at least two (2) days prior notice to the class, provided substitution meets course prerequisites and is approved by Company's Training Coordinator (trainingcoordinator@rand.com)
- For all Training orders, cancellation notices must be submitted to trainingcoordinator@rand.com. Company is not responsible for any error in the delivery of the email notice. In the event of any reschedule of Consulting Services and/or Dedicated/Custom Training by Customer, Company will invoice Customer for all non-cancellable travel expenses.

To request more information or to see training locations, visit www.imaginit.com/contact-us.