

# Intermediate AutoCAD

In Intermediate AutoCAD, you'll acquire the skills to work more quickly and efficiently with lessons on layering techniques and creating advanced layouts. You'll learn how to set units, draw limits, and work with blocks.

Group classes in NYC and onsite training is available for this course. For more information, email [nyc@careercenters.com](mailto:nyc@careercenters.com) or visit: <https://www.careercenters.com/courses/autocad-level-2>



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## Course Outline

### 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

## **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: Advanced Layouts**

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

## **Chapter 9: Annotation Styles**

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

## **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