COURSE SYLLABUS

Beginner AutoCAD

Learn AutoCAD basics for 2D drafting. Create and edit drawings, use layers and blocks, add dimensions, and prepare layouts for printing.

> Group classes (NYC) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://training-nyc.com/courses/autocad-level-1



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Course Outline

1: Getting Started with AutoCAD

- Opening and Creating Drawings
- Exploring the AutoCAD interface
- Zooming and Panning

2: Basic Drawing & Editing Commands

- Using the Mouse, Keyboard, and Enter Key to work quickly and efficiently in AutoCAD
- Lines
- Circles
- Rectangles

3: Projects - Creating a Simple Drawing

- Creating Simple Drawings
- Using Object Snap Tracking to extrapolate a projected top view
- Using Modify tools to arrange an office layout

4: Drawing Precision in AutoCAD

- Polar and Ortho Tracking
- Entering Coordinates and Angles
- Object Snaps and Tracking

5: Making Changes in Your Drawing

- Move
- Copy
- Rotate
- Mirror
- Scale
- Using the reference option with the Scale Tool

6: Drawing Templates

- Using Template Files (.dwt) to Make New Drawing
- Exploring what Settings and Elements are saved with Templates

7: Organizing Your Drawing with Layers

- Layer States
- Properties by Layer
- Layer Tools

8: Advanced Object Types

- Polylines
- Arcs
- Polygons
- Ellipses

9: Analyzing Model and Object Properties

- The Properties Palette
- Quick Select
- Select Similar
- Measure Geometry Tools

10: Projects - Drawing Organization & Information

- Drill Plate
- Furniture Showroom

11: Advanced Editing Commands

- Trim and Extend
- Fillet and Chamfer
- Polyline Edit and Spline
- Offset and Explode
- Join

12: Inserting Blocks

- The Insert Block Command
- Inserting Blocks with Tool Palettes
- Dynamic Blocks
- Migrating Blocks and other Elements between Drawings with DesignCenter

13: Projects - Creating More Complex Objects

Starting a Floor Plan

14: Setting Up a Layout

- Using Layouts and Viewports
- Scaling Viewports
- Model Space vs. Paper Space in Layouts

15: Printing Your Drawing

- Printing from Layout Tabs
- Printing from the Model Tab

16: Projects - Preparing to Print

Making Layouts for a Banquet Hall

17: Text

- The Multiline Text Tool
- The Single Line Text Tool
- Editing Text
- Text in Model Space vs. Paper Space
- The Multileader Tool

18: Hatching

- The Hatch Command
- The Hatch Editor Ribbon Tab
- Saving and Applying Hatches with Tool Palettes

19: Adding Dimensions

- Using Dimensioning Tools
- Dimensioning in a Layout Tab vs. the Model Tab
- Using Dimension Styles
- Editing Dimensions

20: Projects - Annotating Your Drawing

Dimensioning a Mechanical Drawing