AutoCAD Advanced, Efficiency Tips and Tricks



OVERVIEW

Start incorporating an experienced and professional architects tips and techniques in your CAD workflow. Covering the new Autodesk 360 enabled collaboration tools, enhanced command line, and georeferencing options. Learn how to become more efficient power user, reducing the amount of time it takes to accomplish a task, increasing profit margins, and strengthening marketplace competitiveness. The course covers everything from shortcuts used in geometry creation, to program customization, to real world solutions to common problems. Interface customization, block and reference management skills, and express tool usage are also covered.

COURSE STRUCTURE

1. Connecting to Autodesk 360

Creating an account Touring the online interface Managing files Sharing files and collaborating using Design Feed Syncing AutoCAD files and settings automatically

2. Exploring New Interface Tools

Automating command line entry Accessing content from the command line Controlling command line behavior Using file tabs to manage drawings Merging objects into a single layer Changing xref attachments or path types Managing Exchange apps

3. Geo-referencing Maps & Drawings

Adding aerial view map Exploring geo-location options Using a GIS coordinate system to align drawings

4. Interface Customization

Adding relevant data to Quick Properties and tooltips Creating custom ribbon tabs and panels Increasing speed with command aliases (ALIASEDIT) Anchoring the palettes to the side Accessing drawings using Favorites Controlling notification bubbles Restoring hidden messages

5. Drawing Tools

Disabling mode settings on the fly Creating hatches and boundaries in busy drawings Selecting with window polygon (WP) & previous (P) Generating boundaries from difficult shapes Calculating the overall length of multiple entities Calculating the area of multiple shapes (REGION) Flattening geometry to a single elevation Trimming all entities to one side of an object Eliminating duplicated geometry (OVERKILL) Moving and copying entities using Windows shortcuts Solving expressions using the command prompt calculator

Temporarily activating one object snap mode

6. Blocks and References

Making global edits to attribute data Exchanging one block symbol for another (BLOCKREPLACE)

Using drag-and-drop to insert content Creating a block library in two clicks Making blocks inherit layer properties

7. Layers Leveraging Techniques

Making global changes to layer names Converting all object properties to BYLAYER Producing a hard copy of the layer settings Removing stubborn layers Dealing with unreconciled Layers Understanding layer state manager

8. Layouts Extra Tools

Creating legends using the Change Space tool Using UCS to rotate a drawing Importing layouts from template files Freezing layers in specific viewports (Vp Freeze)

9. Miscellaneous Problems

Consolidating backup files into a single folder (MOVEBAK) Salvaging data from a corrupt drawing (AUDIT) Identifying the owner of a drawing (WHOHAS) Creating "one-click" dimensions Dimensioning angles greater than 180 degrees Xref layers line weight

10. Annotative Objects

Concept of Annotation

Annotative objects in AutoCAD Creating annotative text Creating annotative dimensions and multileaders Viewing annotative objects Adding scales to annotative objects Removing scales from annotative objects Creating annotative blocks Creating annotative blocks Creating a custom scale Converting non-annotative objects to annotative Displaying model space linetypes using (MSLTSCALE)

Paste to original coordinates

11. Multi-Line Text Tools

Justifying multi-line text vertically Adjusting line spacing Controlling the display of fractions Creating multiple columns of MTEXT Converting single-line text to multi-line text Adding a background mask

12. Tables

Creating and navigating tables Editing table geometry Formatting table data Inserting formulas Breaking tables into multiple parts Defining table styles Importing tables from Microsoft Excel

13. Dimension Tools

Dimensioning with the spacebar Creating rotated linear dimensions Adding alternate dimensions Dimensioning arcs Breaking dimensions Inserting a jog line Creating ordinate dimensions

14. Fields

Creating smart labels Automating title block information Creating labels to identify drawing updates

15. Blocks Mastering

Using blocks to automate layout data Leveraging the block rotation angle Using DWG files to create blocks Understanding the WBLOCK command Inserting blocks with Divide and Measure Exchanging one block for another

Creating a block tool palette

16. Attributes

Creating an attribute to hold data Understanding the attribute modes Using attributes for labels Editing attributes Understanding the attribute system variables Redefining blocks with attributes Extracting attribute data

17. External References

Understanding external references Creating a link to a DWG file Controlling the appearance of referenced drawings Choosing whether to attach or overlay Clipping an external reference Binding references

18. Adding Imagery

Inserting images Editing the appearance of images Controlling the display of the image border Clipping images Scaling images to a measurable scale Applying transparency to images