AutoCAD – Advanced

Description

This training will allow participants to gain mastery of advanced drawing and editing features.

Course Content
Module 1: Revision of the main tools

- 2D drawing
- 2D drawing modification
- Layer management and object properties
- Texts and annotations
- Hatching
- The graduation
- Layout and printing

Module 2: Managing Layer

- Transparency
- Property filters
- Group filters
- Layer states
- Layer descriptions

Module 3: Designing Complex 2D Objects

- Creating simple regions
- Creation of complex regions (union, subtraction and intersection)
- The limits of use of the regions
- Polyline creation or region by outline

Module 4: 2D Drawing Modification

- Manage the order of drawing objects
- Reassign "layer" properties
- Join similar objects
- Reverse the direction of entities: line, polyline ...
- Find and eliminate duplicate objects
- Isolate / hide objects independently of layers

Module 5: The selections

- The quick selection
- Select similar objects

Module 6: Drawing Help Tools

- REPEROBJ (object tracking): orthonormal or polar projection
- POLAR (polar angles): definition and use of predefined angles

- DYN (dynamic input): use and parameterization of dynamic coordinate input
- The auto-complete commands entered on the command line
- TPY (Transparency Display): Using and Setting the Transparency Display
- EL (display of thicknesses): use and parameterization of the display of line thicknesses
- PR (Quick Properties): Setting Editable Properties by Objects
- SC (selection cycle): use of selection cycles
- AM (annotation monitor): Check associativity of annotations

Module 7: Hatching

- Advanced hatching tools
- Hatching with "gradients"
- Transparency
- Separate hatching
- The correspondence of properties

Module 8: The text

- Back to the style setting
- Advanced multiline text tools

Module 9: The rating

- Back to the style setting
- Advanced rating tools

Module 10: Multiple Benchmarks

- Add and / or delete reference lines
- Align benchmarks
- Merge landmarks

Module 11: Managing Annotation Objects

- Back to adding / removing the current scale to annotation objects

Module 12: Blocks

- Relationship between blocks and layers
- Create blocks with attributes
- Edit attributes
- Manage / synchronize attributes
- Create dynamic blocks
- Use the block editor
- Management and choice of display of dynamic blocks
- Edit a block from the drawing

Module 13: Inserting Linked External Data

- Insert an OLE object
- Insert a hyperlink

Module 14: Tool Palettes

- Create a tool palette
- Create and manage palette groups
- Items and tools storable in pallets
- Blocks in tool palettes: specific properties of blocks in tool palettes

Module 15: Data Export Tools

- Extract data from blocks to a text file (ATTEXTR)
- Define an extraction template
- Choose the extraction format
- Using the Extract Data Wizard (EXTRACTDONNEES)
- Creating a data extraction table or an external file

Module 16: External references or Xrefs

- Attach / detach a file (DWG, Images, PDF) as a reference
- Download / reload a DWG file for reference
- Edit a reference on site
- Attach / detach an image file as a reference

Module 17: The tables

- Table styles
- Table changes
- Tables formulas

Module 18: Layout and Printing

- The layout manager: presentations and object space
- Choice of printers and plotters
- Choice of paper sizes and units
- Create floating windows for presentations
- Relationship between paper space and floating object space
- Set the drawing scale by window
- Annotative annotation styles
- Locking windows
- The properties of the presentation layers
- Modify the list of scales
- Complex windows
- Enlarged windows
- Moving objects between spaces

Module 19: Publishing Files

- Publish multiple presentations in one or more PDF or DWF files

Module 20: Export / Import Formats

- Approach to different file formats import and export

Module 21: The templates

- Template Creation (DWT)

- Reminder on the use of drawing templates

Documentation

- Digital courseware included

Participant profiles

- Architects
- Engineers
- Builders
- Designers
- Industrial Designers

Prerequisites

- Having followed the course or have the equivalent knowledge: AutoCAD - Fundamentals

Objectives

- Master advanced drawing and editing options
- Use all drawing aids tools
- Manage advanced layer functions
- Use a dynamic block library with attributes
- Use advanced edits features for texts, quotes, and benchmarks
- Manage files in external references: drawings, images
- Use multiple impressions and publications
- Create and use template files

Niveau
Avancé
Classroom Registration Price (CHF)
2500
Virtual Classroom Registration Price (CHF)
2350
Duration (in Days)
3
Reference
ATC-02