

AUTOFLUID

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Target audience:	Experienced MEP engineers, HVAC and plumbing CAD designers and technicians.
Objectives :	Make calculations and draft 2D plans of HVAC, plumbing systems and calculation sheets: - Design 2D plans using AUTOCAD/BricsCAD/ZWCAD - Calculate (Sizing and Pressure loss) - Quantify networks and materials - Create views
Prerequisite :	Knowledge and regular contact with AUTOCAD or similar working environments Knowledge of the Windows environment and the internet
Inscription	
conditions :	Signature of the price offer and the training contract and/or validation of outside financing
Lead times :	7 days to 4 weeks
Prices :	Training on site: €1,200 per day ex. taxes for one group of 1 to 5 persons.
Duration :	3 days / 21 hours
Contact :	Mélinda Charbonnel, training manager, and Tracéocad's instructors team.

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DAY 1 : Duration 7 hours

Basic settings

- > Preference file
- > Working unit
- > Drawing scale

Sizes calculations

There are 2 types of calculations : on a single conduit or on a whole network

- > Calculation of air networks
- > Calculation of water networks
- > Calculation of drain networks

Drawing

- > Introduction to double line drawing
- > Structure of a conduit
- > Understanding specifications
- > Routing (Double line and single line)
- > Drawing and calculations of spacing in sets of pipes
- > Insertion of standard components in line or on already drafted ducts
- > Network crossings
- > Customizable air conditioning terminal drawings (AHU, cassette...).

Arrows

- > Automatic drawing and positioning of arrows indicating directions of flows
- > Indicating slopes.

Quick modifications tools

- > Swapping objects
- > Changing conduit shapes
- > Editing text
- > Deleting objects
- > Moving an object on a conduit.

Texts

- > Understanding proportions
- > Choosing a style
- > Create automatic texts, frames, leader lines
- > Formatting of the most common information using prefixes and suffixes
- > Dimensioning.

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DAY 2 : Duration 7 hours

Builder's work openings

- > Sizing and drawing builder's work openings using existing network drawings
- > Drawing openings without a network
- > Modifying builder's work openings
- > Create a table list of openings in the presentation space
- > Create a table list of openings in Excel.

Bills of equipments and materials

- > Creating zones
- > Networks bills
- > Bills of equipments
- > Finding equipment using marker tags
- > Creating lists in the presentation space
- > Export lists in Excel.

Others

- > Automatic redrawing of ducts after they're cut
- > Working with layers (freeze, transfer, lock...)
- > Changing thicknesses.

Laying out drawings

- > Automatic composition of the drawing in the layout
- > Automatic insertion of title blocks formatting
- > Creating detail views
- > Updating the scale of views automatically
- > Inserting the file name, its file path and the list of related XREF in the margin automatically.

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DAY 3 : Duration 7 hours

DZETACAD – Pressure loss calculations

- > Nearly all objects dimensions data is already available to the software because it is embedded in every object draughted in AUTOFLUID, as soon as they are created
- > Insert flow, flow direction, hidden lengths and equipment to complete the necessary information
- > Simply click on a selected segment of the chosen route to compute pressure drops
- > Displaying a schematic view of the route
- > Creating Excel tables tracking linear and singular pressure losses
- > Tables and calculation processes from reference studies in the industry (MEMENTO I.E IDEL'CIK, Air conditionning course PORCHER)

AUTOCOUPÉ

- > Insertion of section markers
- > Creation of accurate plan backgrounds from the plan view
- > Module for inserting technical data while on the top view of a plan
- > Module for deleting technical data
- > Render and preview a cross-section
- > Generate cross-sections and position it in the layout
- > Make quick adjustments to the thickness of slabs, and the level of suspended ceilings or raised floors.

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Methods and teaching resources

Hands on learning with demonstrations.

Use of the software on concrete cases.

All necessary AUTOFLUID applications are provided for the training.

Additional resources

Course support and files for all exercises are provided for further individual training.

Access to trainees with a handicap

Please inform us of specific needs at the time of preparing the sessions.

Feedback from the trainees on the sessions is recorded via a questionnaire at the end of each training program.