

## AUTOBIM3D 10 Training

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**Objectives :** Creating, visualising and importing 3D networks into Revit (BIM type software)

**Pre-requisites :** For draughtsmen and confirmed technicians

Good working knowledge of AUTOFLUID 10 or 2009

Good knowledge of CAD software (AutoCAD, ZWCAD, BricsCAD), Windows and Internet

**Duration :** 2 days

### AUTOFLUID basics reminder

#### Referencing and positioning

- > Working units, GCS-UCS, BASE command
- > General level, high floor, low floor, networks

#### Drafting

- > Graphic structure of a network
- > Point by point routing of double-line and single-line ducts according to your specifications
- > Positioning (at, between lines, between points, in relation to ...)
- > Inserting standard equipment (valve, damper, registers, tap fittings)
- > Checking connections
- > Rebuilding visually broken ducts
- > Modifying an object (elbows going downwards, the size of a duct ...)
- > Moving an object
- > Deleting an object
- > Single-line and double-line network crossings
- > Automatic rebuilding of ducts when breaks occur

#### Specifications

- > Differentiating the text command from the specification command
- > Automatic computation of water levels

### AUTOBIM3D

#### Definition of terms

- > A network
- > In-line equipment
- > Heavy equipment
- > Structure of a network
- > Graphic objects
- > Elements
- > Ducts (horizontal, vertical, oblique, drain)
- > Branches
- > Spread...

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### Specifying levels

- > The dedicated specification command

### Create a 3D network

- > Generating it with a simple capture of the whole or parts
- > Managing networks (renaming, deleting...)

### Visualisation

- > The “window” command in your CAD software
- > Visual styles
- > Navigation commands (ViewCube, Zoom Orbit, ...)

### 3D views snapshots

- > Defining your view (visualisation and rendering)
- > Take a snapshot
- > Placing your snapshot (object space or presentation)

### Exporting

- > 3D DWG
- > 3D IFC (coming up)

### Revit

- > General presentation of Revit
- > The origins of the project
- > Location of the project
- > Reference plan
- > Drawing zone
- > Levels

### CAD software <-> Revit link

- > Generating a drawing backdrop from a Revit model
- > Exporting this backdrop to work with your CAD software and AUTOFLUID
- > Import AUTOFLUID's 3D networks into a Revit model