

## 3D Design with AutoCAD («CAC»)

In this course you will learn how to construct and edit a 3D solid to calculate views for a workshop or building plan. You will also learn how to visualise the 3D model and export it for 3D printing.

**Duration:** 3 days

**Price:** 1'950.–

**Course documents:** Digital courseware

### Content

1. Views
  - 3D views and navigation
  - Visual styles
2. Coordinates
  - Z Axis
  - WKS and BKS
3. Model types
  - Wire frame, surface model and solid models
  - Surfaces and mesh models
4. Basic functions
  - Extrude
  - Rotate
  - Sweep
  - Lift
5. Editing functions
  - Boolean function
  - General Editing
6. Layout
  - Create views, sections and details
  - Visualizing Views
7. Visualize
  - Assign or change materials
  - Adjust and manage light and shadow
  - Render objects
  - 3D printing
8. Export 3D model to STL file
  - Brief insights into the world of 3D printing

### Key Learnings

- Navigating in the space of 3D views
- Understanding world and user coordinates
- Gaining skills in basic 3D design
- Creating editing functions on the 3D model
- Generating views, sections and details from the 3D model
- Visualizing and rendering the 3D model
- Creating 3D model STL files for 3D printing

## Target audience

This course is targeted at people who need 3D models to calculate 2D data such as views, photorealistically represent 3D models or want to export the data for a 3D printer.

## Requirements

You should have a basic understanding of 2D AutoCAD. Knowledge of blocks, attributes, or working with layouts is not required. We recommend that you take the following course or have equivalent knowledge:

- [AutoCAD Basics \(«CAA»\)](#)

## Additional information

**Please note:** The software is not included as standard for virtual participation. Please contact us at [info@digicomp.ch](mailto:info@digicomp.ch) if you would like us to set this up for you.

## Any questions?

We are happy to advise you on +41 44 447 21 21 or [info@digicomp.ch](mailto:info@digicomp.ch). You can find detailed information about dates on [www.digicomp.ch/courses-media-communication/publishing/3d-cad/course-3d-design-with-autocad](http://www.digicomp.ch/courses-media-communication/publishing/3d-cad/course-3d-design-with-autocad)