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 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. You can find detailed information about dates on www.digicomp.ch/courses-media-communication/publishing/3d-cad/course-3d-design-with-autocad