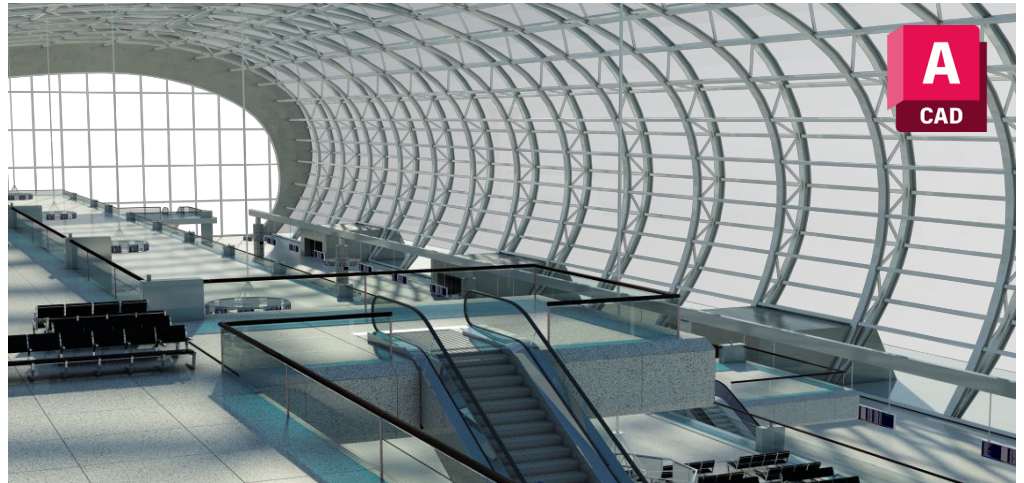


AutoCAD 3D

Training course outline

Introduces the concepts behind 3D modelling in AutoCAD, teaching everything you need to create 3D models from your 2D designs, and work in the 3D environment.



Course summary

Teaches the fundamentals of 3D modelling, teaching you how to:

- Create 3D models from 2D designs.
- Use solid modelling, surface modelling and mesh modelling techniques.
- Create full working drawings of your 3D models.
- Produce visualisations of models, incorporating lighting and materials.

Duration

Two days.

Who should attend?

This course is for users proficient in using AutoCAD to produce 2D drawings who now want to take advantage of AutoCAD's 3D drawing and modelling capabilities.

Prerequisites

Delegates should be familiar with the fundamentals of AutoCAD, i.e. the topics covered in our *AutoCAD Essentials* course (see armada.co.uk/autocad/syllabus).

Knowledge of the topics covered in our *AutoCAD Intermediate* course (see armada.co.uk/autocadint/syllabus) is recommended but not essential.

In-class or live online

You can attend in-person at our centres, or participate live online from your place of work or home.

To read about our approach to online training, see armada.co.uk/liveonline.

General information

Armada is a long-standing Autodesk authorised Training Centre (ATC), and our courses are accredited by Autodesk.

Courses are hosted by Autodesk Certified Instructors (ACIs) with vast experience of using the application professionally.

Whilst attending training at our centres, you'll have the use of a computer running licensed software to practice the techniques taught.

Refreshments and lunch are provided.

Course fees can be paid by card or bank transfer. We accept purchase orders from UK-registered companies and public sector organisations.

Course materials and certificate

You'll receive:

- A comprehensive training guide and practice files.
- An e-certificate confirming successful completion of an accredited *AutoCAD 3D* course.

Method of delivery

Training is designed for the busy professional, being short and intensive and combining lecture and demonstration. Practical exercises carried out under guidance help you learn the techniques taught.

You have ample opportunity to discuss specific requirements with the trainer.

After course support

Following training, you're entitled to 30 days' email support from your trainer.

Further information

See: armada.co.uk/course/autocad3d.

Course syllabus

See over.

Course syllabus

Session	Topics
Navigating the 3D space	Changing workspaces Using the ViewCube Understanding the view controls and User Co-ordinate Systems (UCS) Using Dynamic UCS Using perspective and parallel views
Solid modelling	Primitive creation Boolean construction - Union, Subtraction, Intersect and Interfere Creating Lofts, Sweeps and Revolves Solid models with the Presspull tool. Solid model editing Sub objection selection and manipulation within a solid
Surface modelling	Splines and their use in Surface models Creating Lofts, Sweeps and Revolves Sub objection selection and manipulation within a surface An introduction to NURBS Conversion to a solid model

Session	Topics
Mesh modelling	Primitive creation Sub-object selection and manipulation within a mesh Smoothing and creasing a mesh model Conversion to a solid model
Model manipulation	Moving, rotating and scaling using the Gizmo Using the Rotate3D tool
Drafting in the 3D environment	Lines, Polylines and 3D Polylines
Viewing 3D models and the paper space environment	Viewport creation Creating a section and using the clipping planes Using the Base tool to create a detail drawing set Annotation
Printing	Using visuals styles and hidden line removal Output to a 3D printer for fast prototyping
Rendering	Camera settings Task and environmental lighting An introduction to materials Applying materials Render settings and output types