

AutoCAD Plant 3D Essentials

Training course outline

AutoCAD Plant 3D is a plant layout design tool used by designers and engineers to model and document process plants in 3D.

Our *AutoCAD Plant 3D Essentials* course teaches new users how to build and maintain 3D process plant models and create content.



Course summary

AutoCAD Plant 3D Essentials teaches new users how to use the key features for building, maintaining and creating content for 3D process plant models.

Sessions cover:

- Creating projects and P&IDs
- Creating structures
- Creating equipment
- Editing specifications and catalogs
- Routing pipes
- Adding valves, fittings and pipe supports
- Creating isometric drawings
- Creating orthographic drawings
- Managing data and creating reports

Duration

Three days.

Who should attend?

Newcomers to AutoCAD Plant 3D and novice AutoCAD Plant 3D users.

In-class or live online

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

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

General information

Armada is an Autodesk authorised Training Centre (ATC), and our *AutoCAD Plant 3D Essentials* course is accredited by Autodesk.

AutoCAD Plant 3D courses are hosted by Autodesk Certified Trainers (ACTs) experienced using AutoCAD in industry.

Whilst attending training at our centres, delegates have the use of a computer running licensed AutoCAD plant 3D 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.

If you're self-funding your training, you can pay in staged payments, interest-free, over 12 months.

Course materials and certificate

You'll receive:

- A comprehensive training guide for AutoCAD Plant 3D.
- An e-certificate from Autodesk confirming successful completion of an accredited *AutoCAD Plant 3D Essentials* 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 delegates learn the techniques taught.

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

After course support

Following AutoCAD Plant 3D training, you're entitled to 30 days' email support from your trainer.

Further information, prices & dates

See armada.co.uk/course/autocad-plant-3d-training.

Course syllabus

See over.

Topics	Sub-topics
Session 1: Introduction to AutoCAD Plant 3D	<ul style="list-style-type: none"> Working on a project AutoCAD Plant 3D user interface Different workspaces in AutoCAD Plant 3D Grips Invoking commands AutoCAD Plant 3D dialog boxes Opening a drawing not in the project
Session 2: Creating projects and P&IDs	<ul style="list-style-type: none"> PROJECT MANAGER Creating a new AutoCAD Plant 3D project Defining a P&ID Validating a drawing Editing a drawing Adding intelligence to custom P&ID symbols
Session 3: Creating structures	<ul style="list-style-type: none"> Creating a grid Setting the representation of the structural member Adding members Creating stairs, railings, ladders, plates/grates, footings Editing the structural members Visibility options Exchanging data with other applications
Session 4: Creating equipment	<ul style="list-style-type: none"> Placing equipment in a drawing Adding vessels, heat exchangers, pumps, heaters Creating a customised equipment Modifying equipment Converting solid models into equipment Converting Inventor models into equipment Attaching and detaching objects Adding nodules
Session 5: Editing specifications and catalogs	<ul style="list-style-type: none"> Gelling Started with the Spec Editor Working with Spec Files Working with the Catalog Editor Creating a new catalog from an existing catalog Adding a new part to a catalog Modifying the Branch Table

Topics	Sub-topics
Session 6: Routing pipes	<ul style="list-style-type: none"> Selecting a Spec Working with the Spec Viewer Routing a pipe Creating branches Creating a weld connection Creating Autodesk Connection Point
Session 7: Adding valves, fittings and pipe supports	<ul style="list-style-type: none"> Adding valves and fittings Adding pipe supports Insulating a pipe Modifying pipe components using grips Validating a 3D model
Session 8: Creating isometric drawings	<ul style="list-style-type: none"> Isometric drawing types Creating a quick isometric drawing Creating a production isometric drawing Placing Iso messages and annotations Exporting a pipe component file Configuring isometric drawing settings
Session 9: Creating orthographic drawings	<ul style="list-style-type: none"> Generating the first view Creating the adjacent view Adding annotations and dimensions Locating a component in the 3D model Editing a drawing view Adding grips to pipes Generating Bill of Material Creating BOM annotation
Session 10: Managing data and creating reports	<ul style="list-style-type: none"> Viewing data in the DATA MANAGER Modifying the display of data Zooming to plant objects Editing data in the DATA MANAGER Placing annotations in P&ID using the DATA MANAGER Filtering information in the data table Exporting data from the DATA MANAGER Importing data to the DATA MANAGER Viewing DATA MANAGER reports Working with the Report Creator