

SolidWorks – Essentials only

Training course outline

SolidWorks 3D design software helps teams around the world bring their ideas to life. It is easy to learn and use, letting you concentrate on your designs, not your CAD software.

SolidWorks – Essentials only training covers 3D part and assembly modelling, for newcomers who are going to be working in an environment where SolidWorks is pre-configured and templates are in place.



Course summary

If you're about to start working in an environment where SolidWorks is already configured and templates are in place, this condensed introductory-level course is ideal.

You'll learn the principles behind 3D part and assembly modelling, omitting the configuration and template topics covered in our standard three-day course. Sessions include:

- SolidWorks basics
- sketching
- Basic part modelling
- Patterning
- Editing: Design changes
- Using drawings
- Assembly modelling

Duration

Two days.

Who should attend?

Newcomers to SolidWorks.

Pre-requisites

No previous CAD experience is required. Some mechanical design experience is beneficial 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

Courses are hosted by highly experienced instructors 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 (PDF) confirming successful course completion.

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/solidworksess.

Course syllabus

See over.

Course syllabus

Topics	Sub-topics
SolidWorks basics	What is SolidWorks? File references Opening files The SolidWorks user interface Using the Command Manager
sketching	2D sketching Stages in the process What are we going to sketch? Sketching and sketch entities Basic sketching Rules that govern sketches Design intent Sketch relations Dimensions Extrude Sketching guidelines
Basic part modelling	Design intent Terminology Choosing the best profile Choosing the sketch plane Details of the part Extrude feature Revolved features Sketching on a planar face Cut feature Using the hole wizard View options Filleting Editing tools Detailing basics Drawing views Centre marks Dimensioning Changing parameters

Topics	Sub-topics
Patterning	Why use patterns? Reference geometry Linear, circular and mirror patterns Using pattern seed only Sketch driven patterns
Editing: Design changes	Part editing Design changes Information from a model
Using drawings	More about making drawings Section, model, broken and detail views Drawing sheets and sheet formats Projected views Annotations
Assembly modelling	Creating a new assembly Position of the first component FeatureManager design tree and symbols Adding components Subassemblies Smart mates Inserting subassemblies Changing the values of dimensions Bill of materials Assembly drawings