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 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 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

Courses are hosted by highly experienced trainers from an engineering background with expert knowledge of SolidWorks

SolidWorks – Essentials only training is arranged on request, i.e. one-to-one training or a course for your group. This means that the training can be:

- Provided when it suits you.
- Adapted to reflect your work

Whilst attending training at our centres, delegates have the use of a computer running SolidWorks to practice the techniques taught. Refreshments and lunch are also 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.

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 to learn the techniques taught.

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

Course materials and certificate

Delegates receive:

- A comprehensive training guide for SolidWorks.
- An e-certificate (PDF) confirming successful course completion.

After course support

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

Further information

For further details see armada.co.uk/course/solidworks-course/. For a quote and details of our availability, please contact us.

Course syllabus

See over.

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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