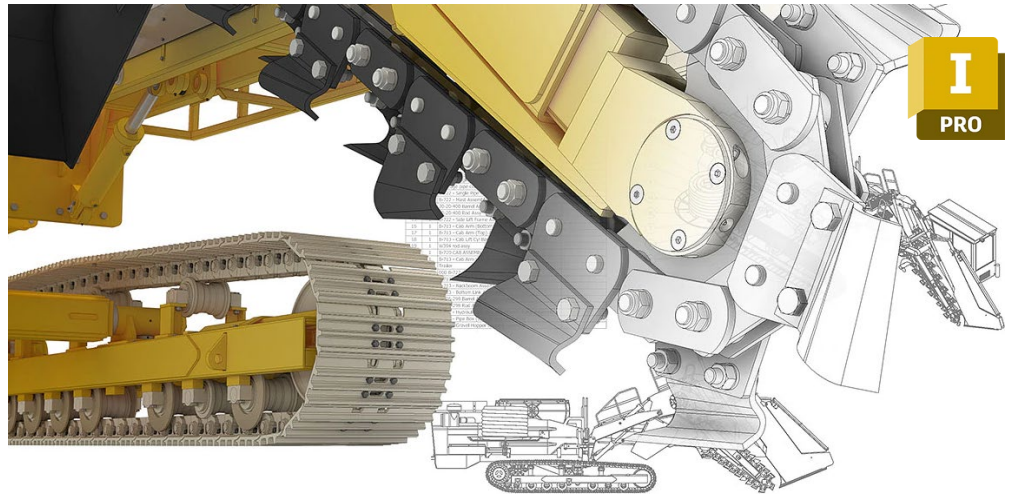# Inventor Essentials
Training course outline

Inventor makes it easy to create, modify and manage piping and instrumentation diagrams.

Inventor Essentials training provides a thorough grounding for beginners.
On completion, you will be able to use Inventor to create and amend production-ready parts and assemblies.

Course summary

Inventor Essentials teaches:

- The fundamental principles behind 3D parametric part and assembly design.
- The use of the tools and features available in Inventor to create and amend production-ready parts and assemblies.

Hands-on exercises representing real-world, industry-specific design scenarios are carried out under guidance.

Duration

Three days.

Who should attend?

Newcomers to Inventor and novice 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/onlinetraining.

General information

Armada is an Autodesk authorised Training Centre (ATC), and our *Inventor Essentials* course is accredited by Autodesk.

Inventor courses are hosted by Autodesk Certified Instructors (ACIs) from an engineering background with vast experience of using Inventor professionally.

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

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

Delegates receive:

- A comprehensive Inventor training guide.
- An e-certificate from Autodesk confirming attendance on an accredited *Inventor 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 to learn the techniques taught.

Delegates have ample opportunity to discuss their specific requirements.

After course support

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

Further information, prices & dates

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

Course syllabus

See over.

Course syllabus

Sessions	Topics
Getting started	Autodesk Inventor user interface
	View manipulation
	Designing parametric parts
Basic sketching techniques	Creating 2D sketches
	Geometric constraints
	Dimensioning sketches
Basic shape design	Creating basic sketched features
	Intermediate sketching
	Editing parametric parts
	3D grip editing
	Creating work features
	Creating basic swept shapes
Detailed shape design	Creating chamfers and fillets
	Creating holes and threads
	Patterning and mirroring features
	Creating thin-walled parts
Assembly design overview	Designing assemblies
	Using project files in assembly designs
Placing, creating and constraining components	Placing components in an assembly
	Constraining components
	Placing standard components using the content center
	Basic part design in an assembly

Sessions	Topics
Interacting with an assembly	Identifying parts in an assembly
	Analysis and motion tools
	Presenting your assembly
Basic view creation	Drawing creation environment
	Base and projected views
	Section views
	Detail views
	Crop views
	Managing views
Dimensions, annotations and tables	Automated dimensioning techniques
	Manual dimensioning techniques
	Annotating holes and threads
	Creating centerlines, symbols and leaders
	Revision tables and tags
Annotating assembly drawings	Assembly-centric bill of materials
	Creating and customising parts lists
	Creating balloons
Drawing standards and resources	Setting drawing standards
	Drawing resources