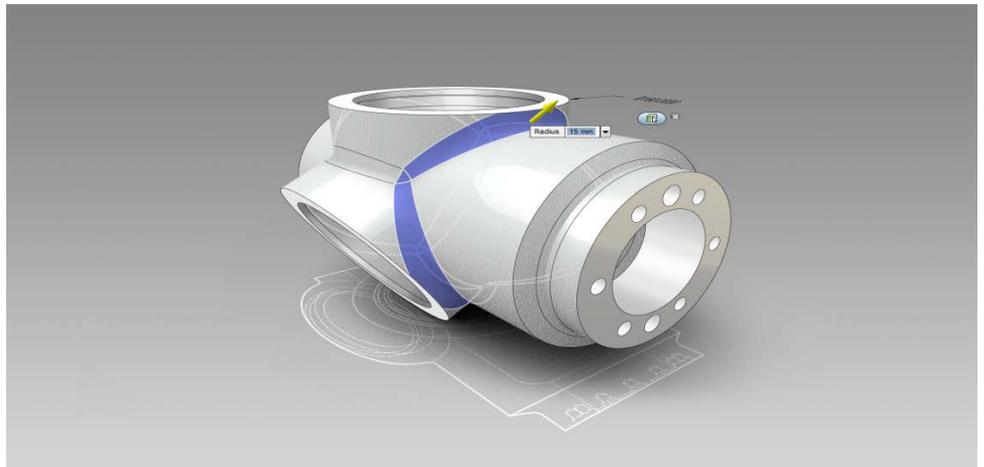


# Inventor Essentials

## Training course outline

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

*Inventor Essentials* 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.

### 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 Trainers (ACTs) with vast experience of using AutoCAD Inventor in industry.

Whilst attending training, delegates have the use of their own workstation on which to practice the techniques taught. Refreshments and a buffet lunch are also provided.

Course fees can be paid by cheque, electronic transfer or credit/debit card.

### Courseware and certificate

Delegates receive:

- Autodesk Official Training Guides, the most comprehensive Inventor training materials available.
- An e-certificate from Autodesk confirming attendance on an accredited *Inventor Essentials* course.

Course fees can be paid by cheque, electronic transfer or credit/debit card.

### Where are courses held?

Scheduled (public) *Inventor Essentials* courses are hosted in Bromsgrove, close to Birmingham. We are easily accessible by car from the M5, M6, M40 and M42 motorways. Bromsgrove train station is approximately 2 miles away. Delegates are eligible to discounted rates at local hotels; see [armada.co.uk/accommodation](http://armada.co.uk/accommodation).

On-demand *Inventor Essentials* training (one-to-one or group training) can be provided anywhere in the UK.

### Dates and price

Scheduled (public) *Inventor Essentials* courses are typically run bi-monthly. For dates and prices see [armada.co.uk/inventor-training-course](http://armada.co.uk/inventor-training-course).

### After course support

Following Inventor training, delegates are entitled to 30 days email support from their trainer to help with any post-course issues.

### Inventor professional certification

Armada is an authorized Autodesk Certification Centre (ACC) offering Autodesk professional certification exams which lead to 'Autodesk-certified professional in Inventor' status.

# Course syllabus

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

Topics	Sub-topics
<b>Basic view creation</b>	Drawing creation environment Base and projected views Section views Detail views Crop views Managing views
<b>Dimensions, annotations and tables</b>	Automated dimensioning techniques Manual dimensioning techniques Annotating holes and threads Creating centerlines, symbols and leaders Revision tables and tags
<b>Annotating assembly drawings</b>	Assembly-centric bill of materials Creating and customising parts Lists Creating balloons
<b>Drawing standards and resources</b>	Setting drawing standards Drawing resources