

Inventor CAM and CNC

Training course outline

Inventor CAM software brings enterprise-class machining capabilities to the Inventor application.

Inventor CAM and CNC training teaches everything you need to program your CNC machine to generate your Inventor models.

You'll learn to create CNC strategies, create a CAM setup, plot toolpaths, simulate and post process them to G-code to program your CNC machine.



Course summary

Sessions include:

- Creating a suitable CAM setup
- Designing fixtures
- Tool path strategy
- Creating a tool library
- Drilling
- 2/2.5 axis milling
- 3D milling
- Turning
- Multi (4 and 5) axis milling
- Patterns and templates
- Post processing
- Simulation

This course is highly practical. We have a CNC machine in the classroom that our trainer uses to demonstrate the techniques taught.

Our CNC machine is portable, so can be brought to your venue for on-site courses. Online delegates can see the CNC machine in operation through a dedicated webcam.

Duration

Two days.

Who should attend?

Experienced Inventor users who want to generate their Inventor models on their CNC machine.

Prerequisites

You should have a good working knowledge of Inventor for 3D parametric modelling, i.e. be familiar with the topics taught in our *Inventor Essentials* course (see armada.co.uk/inventor/syllabus).

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

Armada is a long-standing Autodesk authorised Training Centre (ATC), and our courses are accredited by Autodesk.

Courses are hosted by Autodesk Certified Instructors (ACIs) 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 confirming successful completion of an accredited *Inventor CAM and CNC* 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 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/inventorcam.

Course syllabus

See over.

Course syllabus

Sessions	Topics
Creating a CAM setup	Exploring the Inventor CAM environment Creating a job setup Configuring tools and stock material Creating and using tools in the library Defining toolpaths for a variety of cut types. Holding the components
Designing fixtures	
Tool Path Strategy	
Creating a Tool Library	
Drilling	
2/2.5 Axis Milling	Drilling and hole making Contouring Pocket Facing Adaptive clearing

Sessions	Topics
3D Milling	Parallel Contour Horizontal clearing Pencil Scallop/constant stepover Spiral Morphed spiral Radial Pocket Adaptive clearing
Turning	Turning profile Turning groove Turning face Turning single groove Turning chamfer Turning part Turning thread
Multi (4 and 5) Axis Milling	Milling and Drilling on Compounded Faces
Patterns and Templates	
Post Processing	Introduction to posts Exporting G-code for your CNC machine Setup sheets
Simulation	