

Fusion Intermediate

Training course outline



Building on the basics, intermediate-level Fusion training teaches existing users how to utilise the full power that Fusion offers.



Course summary

Sessions cover:

- Configurations
- 2D drawing template creation
- Solid, surface, T-Spline and mesh modelling
- Rendering
- Animation
- Simulation fundamentals.

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

Duration

Two days.

Prerequisites

You should have a good working knowledge of Fusion, i.e. be familiar with the topics taught in our [Fusion Essentials course syllabus](#).

Windows or Mac

Fusion works similarly running on a Windows computer or Mac, and our course is suitable for users of both platforms.

If you attend a course in-class, you can choose to use a Windows computer or a Mac to practice the techniques taught.

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 *Fusion Intermediate* courses are accredited by Autodesk.

Courses are hosted by Autodesk Certified Instructors (ACIs) with vast experience of using Fusion professionally.

Course materials and certificate

You'll receive:

- A comprehensive training guide and practice files.
- An e-certificate confirming successful completion of an accredited *Fusion Intermediate* 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

For prices, dates and further details, see armada.co.uk/course/fusionintermed or scan the QR code above.

Course syllabus

See over.

Other Fusion courses

- [Fusion Essentials](#) (2 days).
- [Fusion Advanced](#) (2 days).
- [Fusion CAM and CNC Essentials](#) (2 days).
- [Fusion CAM and CNC Advanced](#) (2 days).
- [Fusion Sheet Metal Design](#) (1 day).
- [Fusion Technical Drawings](#) (1 day).
- [Fusion Additive Manufacturing](#) (2 days).
- [Fusion Simulation and FEA Stress Analysis](#) (1-3 days).
- [Fusion Generative Design](#) (2 days).

Course syllabus

Session	Topics
Configurations	Single component configuration Small assembly configuration Large assembly configuration Best practice
2D Drawing Template Creation	Simple border and title block Text fields Attributes from assemblies Components User input fields Logos Industry-standard template Tolerance 3 rd and 1 st angle symbols Scale Material Finish Company information Copyright
Solid, Surface, T-Spline and Mesh Modelling	Overview of the four model states Solid modelling workflow and example Surface modelling workflow and example T-Spline modelling workflow and example Mesh modelling workflow and example Working with and between model states

Session	Topics
Rendering	Using an existing assembly without material or appearance Creating a material and an appearance Adding material/appearance, texture mapping and a decal to the assembly Lighting and environment control Custom environments Cameras and views Local vs cloud rendering
Animation	Bringing a rendered assembly into the Animation Workspace Creating an exploded view Timeline editing Keyframes Camera control Motion Generating video Adding an exploded view to a drawing using a 2D Drawing Template
Simulation Fundamentals	A high-level discussion of simulation principles Simulation workflow