

Fusion Advanced

Training course outline



Training for existing Fusion users looking to incorporate specific workflows, tools and optimisation.



Course summary

Our approach to advanced-level Fusion training is to tailor the sessions to meet each client's specific objectives. We arrange for you to speak to our instructor, then recommend the training required to achieve your desired outcomes.

As such, we don't have a set syllabus, but sessions typically include:

- Plastic modelling tools
- Mesh tools
- Form tools
- Surface tools
- Advanced solid tools
- Advanced assemblies
- Configurations

Depending on which features you want to focus on, you may require the Fusion Design extension. If you don't have access to this extension, we can provide it for the training.

Duration

Two days

Prerequisites

You should be familiar with the techniques taught in our *Fusion Essentials* and *Fusion Intermediate* courses. See www.armada.co.uk/fusion/syllabus and www.armada.co.uk/fusionintermed/syllabus for details of the knowledge required.

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 Advanced* 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:

- Training materials and video content recommendations.
- An e-certificate confirming successful completion of an accredited *Fusion Advanced* course.

After course support

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

Further information

See: armada.co.uk/course/fusionadvanced or scan the QR code above.

Course syllabus

See over.

Other Fusion courses

- *Fusion Essentials* (2 days).
- *Fusion Intermediate* (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

Below is a list of topics typically covered in our advanced-level Fusion course. This isn't a rigid syllabus. Depending on each client's requirements, we may not necessarily cover all topics, and additional topics can be included if requested.

Session	Topics
Plastic Modelling Tools	Snap Fit tool Boss tool Rest tool
Mesh Tools	Importing mesh files and 3D scan data Repairing and refining meshes Direct editing of meshes Converting mesh files Mesh best practices
Form Tools	What is T-Spline modelling When to use Form vs Solid vs Surface Recap of Form basics Advanced Form shapes Crease vs smooth edges Bridge, Fill and Weld tools Smooth, Pull, Flatten and Straighten Tools Converting Form bodies Modification of generatively designed features
Surface Tools	What are Surface bodies? When to use Surface vs Solid vs Form Recap of Surfacing basics Advanced use of Surface Tools Horizon modelling techniques Managing Curvature Flow and Curvature Inspection tools

Session	Topics
Advanced Solid Tools	Geometric patterning Volumetric latticing Automated modelling Boundary fill Arrange Bills of Materials (BoMs) Fasteners
Advanced Assemblies	Joint origins Motion links Motion study Contact sets
Configurations	Advanced parameter features Basics of configurations Nested configurations Configuration thinking Configurations outside the Design Workspace