



# AUTODESK FUSION TRAINING

**Fusion Courses**

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# Fusion Introduction to Parametric Modelling

**3 Days**

## COURSE DESCRIPTION

This course will provide you with an understanding of the parametric design functionality within Autodesk Fusion software. Through hands-on exercises, you will acquire the key skills and knowledge required to design models using the Fusion software.

## COURSE MODULES

- Autodesk Fusion Interface
- Creating and Constraining 2D Sketches
- Creating and Editing Solid 3D Features
- Creating and Using Construction Features
- Creating Equations
- Working with Parameters
- Manipulating the Feature History of a Design
- Duplicating Geometry in a Design
- Placing and Constraining Components
- Defining Motions in a Multi-Component Design
- Creating Multi-Component Designs
- Creating Features in a Multi-Component Design
- Creating and Editing T-Spline Geometry
- Documenting a Design in Drawings
- Defining Structural Constraints and Loads

## OTHER INFORMATION

### Prerequisites

A background in drafting of 3D parts is recommended.

### Course Duration

3 Days

### Next Steps

A bespoke course



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# Fusion 2D/3D Machining and Turning 1 Day

## COURSE DESCRIPTION

This Fusion training course will provide you with an understanding of the integrated CAD functionality within Autodesk Fusion software. Through hands-on learning, you will acquire the key skills and knowledge required to produce 2.5 and 3-axis CNC Programs using the Fusion software.

## COURSE MODULES

- Autodesk Fusion CAM Interface
- Creating a Job Setup
- Creating and Using Tools in the Library
- Simulation and Post Processing the Job
- Face Milling
- 2D Strategies for Contouring and Pocketing
- 2D Strategies for Adaptive Clearance
- Drilling Operations
- Strategies for Circular, Slot and Trace Machining
- 3D Machining Strategies
- Semi Finishing Strategies for 3D Parts
- Finishing Strategies for 3D Parts
- Basic Turning Operations
- Operations for Threading and Chamfering
- Creating Setup Sheets

## OTHER INFORMATION

### Prerequisites

Knowledge of machining techniques and Inventor, SolidWorks or Fusion is recommended.

### Course Duration

1 Day

### Next Steps

Fusion Advanced Machining



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# Fusion Advanced Machining 1 Day

## COURSE DESCRIPTION

This Fusion course builds on the 2D/3D topics and will provide you with an understanding of the more advanced multi-axis capabilities within Autodesk Fusion software. Through hands-on exercises, you will acquire the key skills and knowledge required to produce 4 and 5-axis CNC programming using the Fusion software.

## COURSE MODULES

- Advanced Job Setups
- 3+2 Machining Operations
- 4th Axis Wrapping
- Swarf Machining
- Advanced Turning
- Secondary Spindle Operations
- Turret Operations

## OTHER INFORMATION

### Prerequisites

Knowledge of machining techniques is recommended. Our 2D/3D Machining and Turning course.

### Course Duration

1 Day

### Next Steps

A bespoke course



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