

# Autodesk Fusion Nesting Training Course

## Course Overview

### Course Length: 8-Hours

- 8-Hour (4 x 2-hours) Training
- Remote training over Microsoft Teams
- Sessions are recorded and download links are provided for future reference
- Training for up to 1-3 people
- Sessions can start within 7 days upon ordering
- Flexible scheduling options to suit production and project timelines
- Private training tailored to fabrication and manufacturing workflows
- Includes Certificate of Completion

The Fusion Nesting Training Course provides practical instructor-led training for manufacturing professionals, fabricators, sheet metal designers, CNC operators, and engineers wanting to develop efficient nesting and material optimisation workflows using Autodesk Fusion Nesting. This course focuses on sheet nesting workflows, material yield optimisation, manufacturing preparation, nesting studies, and production-ready output processes used across fabrication and manufacturing industries. Delivered through live remote training sessions over Microsoft Teams, the course provides structured hands-on learning through practical project-based exercises and instructor-led demonstrations so participants can prepare sheet metal components, create nesting studies, optimise material usage, manage manufacturing settings, and generate production-ready outputs using Autodesk Fusion Nesting workflows.

## Topics Covered

Topics covered include preparing models for nesting, creating and managing nesting studies, defining sheet materials and stock, configuring spacing and manufacturing rules, controlling grain direction and part orientation, generating and comparing nesting layouts, optimising sheet utilisation, exporting DXF and CNC-ready outputs, and producing reports and documentation for fabrication workflows.

## Prerequisites

Participants should have a working knowledge of Autodesk Fusion and be comfortable with basic part modelling, assemblies, and sheet metal concepts. Prior experience creating or preparing sheet metal components for manufacturing is recommended, and familiarity with fabrication or CNC production workflows will be beneficial.

## Fusion Nesting Training Course Contents

### Chapter 1: Introduction to Autodesk Fusion Nesting

- Overview of Fusion Nesting
- Manufacturing and Fabrication Workflows

- Preparing Models for Nesting
- Understanding Material Yield Optimisation

## **Chapter 2: Nesting Setup and Configuration**

- Creating Nesting Studies
- Defining Sheet Materials and Stock
- Configuring Spacing and Manufacturing Rules
- Grain Direction and Part Orientation

## **Chapter 3: Material Optimisation Workflows**

- Generating Nesting Layouts
- Optimising Sheet Utilisation
- Managing Multiple Nesting Studies
- Comparing Material Yield Results

## **Chapter 4: Manufacturing Outputs and Documentation**

- Exporting DXF and CNC Files
- Generating Reports and Documentation
- Managing Production Workflows
- Best Practices for Manufacturing Preparation