

Creative Short Course in 3D Printing Pens

Course Code

ART/3DPEN/24/3/A

Time and duration

Start Date: 03 July 2025

Start Time: 09:30

Weeks: 3

Location

Acorn Learning Centre
Kingshead Close Castlefields
Runcorn
WA7 2JE

Duration

3 weeks

Time

9.30-3pm

3D printing pens basic outline

A short course delivered by Digital Arts Box CIC and Mako Create on behalf of Halton Adult Learning, introducing learners to hands-on 3D design and creative making.

Course Description

3D Printing Pen Basics is a fun and creative 3-week course designed for people who want to explore the exciting world of 3D printing through hands-on crafting. Using handheld 3D Printing Pens, participants will learn to draw in three dimensions using PLA filament, creating simple structures, patterns, and decorative objects. These easy-to-use tools offer an accessible introduction to 3D thinking, spatial design, and creative construction —perfect for adult learners who enjoy practical, imaginative activities.

Goals of the course

The goal of this course is to introduce participants to 3D making in a hands-on and approachable way, encouraging confidence, creativity, and spatial awareness. By the end of the course, learners will be able to use a 3D printing pen to construct their own basic 3D objects and designs.

Learning outcomes

- Understand how to safely use and maintain a 3D printing pen
- Develop basic skills in 3D drawing using PLA filament
- Translate 2D sketches and templates into 3D forms
- Explore techniques for layering, joining, and shaping plastic structures
- Design and complete simple 3D models or decorative items
- Build confidence in creative problem-solving and design thinking

Course Delivery breakdown

Session 1: Getting Started with 3D Pens

- Introduction to the 3D pen and PLA filament
- Health and safety guidance and pen handling basics
- Practicing simple lines, shapes, and freehand drawing in 3D
- Creating flat templates and basic 2D structures

Session 2: Building in 3D

- Techniques for layering and joining parts
- Exploring form, balance, and structure
- Using stencils and guides to create basic 3D objects (e.g., cubes, stars, frames)
- Group feedback and peer discussion

Session 3: Creative Challenge & Showcase

- Planning and creating a small decorative or functional 3D object
- Problem-solving and adapting designs during the making process
- Final object creation and informal showcase of outcomes
- Tips for continuing with 3D pens and printing at home

How to enrol

Please contact Halton Adult Learning on 0151 511 7788