

## BROCRAFT QUALITY METAL PRODUCTS

### InnovateUs Case Study

### Introduction

Brocraft are stainless-steel metal workers and fabricators based in Randalstown.

### Challenge

Brocraft want to develop in two main areas; sheet metal design upskilling in a CAD package and advanced CNC (computer numerical controlled folding) Pressbrake and upskilling.

Brocraft do not have the skills in house to allow them to design sheet metal solutions in a CAD based system, so relies on outsourcing this skill. These higher-level CAD and sheet metal skills will provide more efficient manufacturing processes for designing parts through to final manufacture.

### Solution

Northern Regional College developed a tailored upskilling programme to include:

- Overview of basic SolidWorks tools and introduction to sheet metal applications
- Weldments assembly, part files and creation of working drawings for sheet metal specific call outs
- Development of CAD skills and the use of 3D parametric modelling in the creation of parts
- Rendering of product to improve visualisation for sales and e-marketing
- Pressbrake programming

### Benefit

By introducing sheet metal and 3D modelling skills, Brocraft increased the quality of design work for steel fabrications to allow them to develop their own product range of stoves

### Result

Brocraft were lacking in 3D modelling skills and knowledge, so the Northern Regional College programme has given them the know-how in fully using this software to be able to predict costings and material usage. This has improved customer service as they can now provide accurate information and pricing at the outset.



This upskilling will allow us to formulate conceptual ideas and present them to clients in a 3D format and allow us to prove the concept for new products to the customer before the manufacturing process. Due to the work that we do with the construction industry, accurate 3D representation is critical for future projects as it will reduce costs and decrease lead time by eliminating any misinterpretations. **Gareth Corr, Owner.**

