J2.5 Cut and pierce jewellery or silverware components SQA Unit Code H9W1 04

Unit Summary

This unit covers the skills and knowledge required to identify and use the different types of equipment appropriate to your work to cut and pierce materials. You will work to a given specification which may include timescales in which to complete your work.

Performance Indicators

You will be able to:

a) Follow **instructions** for cutting and piercing components

b) Identify and select the correct **saw blades**

c) Cut shapes for jewellery or silverware using a range of **cutting tools**

d) Cut out a range of shapes using a **piercing saw frame** with the appropriate saw blade

e) Complete the work to the given specification

Knowledge and Understanding

You will know and understand:

1) The specific safety precautions to be taken when using sheet metal, cutting and piercing tools and equipment

2) The methods of marking out, drilling for piercing simple shapes and patterns

3) How to check that equipment is in a usable condition

4) How to cut sheet materials using appropriate cutting equipment

5) The type of saw and blade to be used for different materials.

6) The importance of keeping the work area safe, tidy to retain valuable waste (lemel)

7) How to check that the piercing and cutting is accurate

Range

You are required to:

Range

A. Follow two of the following types of **instructions** related to cutting and piercing:

(i) Verbal

(ii) Written

(iii) Drawing

B. Use all of the following with the appropriate **saw blade**

(i) Saw frame

(ii) Junior hacksaw

(iii) Standard hacksaw

C. Use at least 2 of the following **cutting tools**:

(i) Hand shears

(ii) Guillotine

(iii) Bench shears

D. Cut out all of the following shapes using a **piercing saw frame** using the appropriate saw blade

(i) Straight lines

(ii) Spiral

(iii) Round hole

(iv) Square hole

(v) Symmetrical design fretwork