

J3.5 Saw and pierce jewellery or silverware components SQA Unit Code H9V8 04

Unit Summary

This unit covers the skills and knowledge required to use the different types of sawing equipment appropriate to your work to cut and pierce materials. You will be required to work to instructions, use a range of saws appropriate to the design of the product. You will be expected to check the quality and accuracy of your work against given tolerances. You need to be able to recognise any defects, to determine the appropriate action to rectify them and ensure that the finished work meets the given specification.

Performance Indicators

You will be able to:

- a) Follow **instructions** for sawing and piercing complex components
- b) Identify and select the correct saw blades
- c) Cut out range of items using a **piercing saw frame**
- d) 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, sawing and piercing tools and equipment
- 2) The methods of marking out, drilling and piercing complicated shapes and patterns
- 3) The type of saw to be used, and selecting appropriate saw blades
- 4) The importance of keeping the work area safe and tidy to retain valuable waste (leml)
- 5) How to check that the pierced and sawn product meets the required standard

Range

You are required to:

Range

- A. Follow all of the following **instructions**:
 - (i) Verbal
 - (ii) Design
 - (iii) Technical Drawing

B. Cut out all the following shapes using a **Piercing saw frame** from **one** of the following groups:

Group 1 - Jeweller

Cut out the following shapes

- (i) Parallel straight lines
- (ii) Parallel curved lines
- (iii) Round back holes
- (iv) Square back holes
- (v) Honeycomb
- (vi) Symmetrical design fretwork

Group 2 - Silversmith

Cut out the following shapes

- (i) Straight lines
- (ii) Spiral
- (iii) Round or oval holes
- (iv) Square or rectangular holes
- (v) Symmetrical design fretwork