

## **J2.7 Produce formed jewellery or silverware components SQA Unit Code H9W3 04**

### **Unit Summary**

This unit covers the skills and knowledge required to produce components using forming techniques. You will be required to work to instructions and to use a range of forming techniques, appropriate to the type of material used and components being formed.

### **Performance Indicators**

You will be able to:

- a) Identify and use a range of **hand forming tools** for curved surfaces
- b) Identify and use a range of **hand and machine forming tools** for flat surfaces
- c) Produce a range of simple **formed components**
- d) Produce simple components using a mechanical press
- e) Work to instructions either written, verbal or drawn
- f) Check the formed pieces are to the given specifications.

### **Knowledge and Understanding**

You will know and understand:

- 1) The use and care of hand and machine forming tools
- 2) The importance of keeping the work area safe and tidy
- 3) The methods of heating material to anneal components before forming
- 4) The typical faults that can occur with the operations and tools being used
- 5) How to draw solid and hollow wire profiles
- 6) How to check that the finished work meets the standard required

### **Range**

**You are required to:**

- A. Identify all, and use 3 of the following **hand forming tools** for curved surfaces:
  - (i) Doming block and punches
  - (ii) Swage blocks
  - (iii) Simple chasing punches
  - (iv) Mandrels and triblets
  
- B. Identify all, and use 2 of the following **hand and machine forming tools** for flat surfaces:
  - (i) Flat iron/Flat plate
  - (ii) Sheet Rolling Mills
  - (iii) Wire Rolling Mills

- C Identify and produce **formed components** that are extruded with all of the following:
- (i) Small Round and Square drawplates up to 3mm
  - (ii) Larger Round and Square drawplates from 3mm upwards
  - (iii) Bench Vice and draw tongs
  - (iv) Draw Bench