

J3.13 Use mechanical methods of joining jewellery or silverware SQA Unit Code H9V9 04

Unit Summary

This unit covers the skills and knowledge required to produce jewellery or silverware, using a range of mechanical joining techniques. You will be required to work to instructions, use a range of equipment, and a variety of joining techniques. During, and on completion of, the production operations, you will be expected to check the quality and accuracy of your work, against given tolerances and the specification which may include timescales. You need to be able to recognise any defects, to determine the appropriate action to rectify them, and to ensure that the finished work meets the required standard

Performance Indicators

You will be able to:

- a) Join a variety of components, using a range of **mechanical methods**
- b) Produce a range of products with mechanical joined components
- c) Check the completed work meets the specification

Knowledge and Understanding

You will know and understand:

- 1) The wide range of complex mechanical joining techniques
- 2) How to identify the materials to be joined (both precious and non precious, metallic and non-metallic), and the most appropriate joining method
- 3) The various cold and mechanical fixing or joining methods
- 4) How to recognise the importance of dry assembling components together before carrying out the joining operations
- 5) How to design methods to join components that retain the appearance whilst maintaining the integrity of the joint
- 6) How to check the finished work meets the standard required

Range

You are required to:

- A. Join jewellery or silverware components using all of the following **mechanical methods**
 - (i) Pegs and cheniers
 - (ii) Riveting
 - (iii) Screw threads
 - (iv) Hinges