

J4.19 Carry out repairs and restoration to jewellery or silverware SQA Unit Code H9V3 04

Unit Summary

This unit covers the skills and knowledge required to repair and restore jewellery or silverware. Restoration refers to any artifact classified as having special intrinsic and/or antique value, which demands extra care and attention, to make it as new or to repair as good as possible. This will require you to have specialist knowledge and expertise, gained through experience in your craft. You will be required to work to instructions and to use a range of hand and machine techniques, appropriate to the type of material being used and the type of jewellery or silverware being repaired. You will be expected to take personal responsibility for your own actions and for the quality and accuracy of the work that you carry out.

Performance Indicators

You will be able to:

- a) Identify the condition of client's articles
- b) Create clear and concise documentation
- c) Work with the materials, tools and equipment to complete a wide **range of repairs**

Knowledge and Understanding

You will know and understand:

- 1) How to identify historical techniques and features
- 2) The methods of protecting the existing condition and patina
- 3) The methods of avoiding unnecessary damage and risk.
- 4) The methods used to calculate dimensional information for producing components
- 5) Methods of creating complex three-dimensional forms
- 6) Basic gemology and metallurgy
- 7) Specialist materials and finishes
- 8) How to identify the physical and working properties of different metals, and their heat treatment techniques
- 9) How to use and select the correct tools and equipment for prescribed tasks and processes
- 10) Complex jewellery and Silversmithing construction techniques
- 11) How to check the finished work meets the standard required
- 12) Typical faults that can occur with the techniques, processes and tools being used, and the procedures to be undertaken if a fault is identified
- 13) The safe use, mixing proportions, and ways in which chemicals are used

Range

A. You are required to carry out **repairs** from one of following groups:

Group 1 – Jewellery

Carry out all of the following:

- (i) Repair bracelet joint and hinges
- (ii) Re-tip claws
- (iii) Size rings in various metals including Platinum
- (iv) Fit new shanks (yellow and white gold)
- (v) Repair various snaps on necklace/bracelets
- (vi) Fit new joint, pin and catch on brooches

OR

Group 2 – Silverware

Carry out all of the following:

- (i) Repair an item of silver cutlery
- (ii) Fit a new handle on a jug or tea/coffee pot
- (iii) Remove dents from a jug or vase
- (iv) Replace the lid on a box or case
- (v) Remove lettering and re-engrave

OR

Group 3 – Polishing and Finishing

Carry out all of the following:

- (i) Recognise original treatment and achieve a matching finish
- (ii) Select the appropriate compounds to polish
- (iii) Hand polishing and threading
- (iv) Burnishing
- (v) Removing polish residue with regard to component parts and precious gemstones

OR

Group 4 – Setting

Carry out all of the following:

- (i) Check for flaws or cracks
- (ii) Check stones for surface damage
- (iii) Remove damaged stones
- (iv) Set replacement stones in the original setting
- (v) Set original stone in re-tipped setting
- (vi) Clean settings to match original