

## **J4.11 Produce polished and finished jewellery or silverware items using advanced techniques SQA Unit Code H9TL 04**

### **Unit Summary**

This unit covers the skills and knowledge required to produce buffed, polished and finished surfaces, using appropriate techniques. In producing polished surfaces, you will be required to work to instructions and to use a range of hand and mechanical techniques, appropriate to the type of material being used and the type of articles being produced. You will be expected to take personal responsibility for your own actions and for the quality and accuracy of the work. You will be expected to check the quality of your work using visual inspection guidelines, which are appropriate to the aspects being checked, and specifications required. You will need to be able to recognise any defects, to determine the appropriate action to rectify them and ensure that the finished work meets the required standard.

### **Performance Indicators**

You will be able to:

- a) Polish work on a wide range of **materials**
- b) Finish work to a commercial standard covering a wide range of advanced **techniques**
- c) Check that the completed work/work pieces are free from marks and blemishes

### **Knowledge and Understanding**

You will know and understand:

- 1) The specific hazards associated with particular polishing equipment
- 2) How to identify and specify the use of advanced compounds - abrasive, polishing, finishing and matting
- 3) How to identify and specify the use of specialised mops, brushes, felt bobs, and composition wheels
- 4) How to prepare and dress custom made mops and bobs
- 5) Why cleanliness is important in polishing and finishing
- 6) The correct sequence in removing fire-stain, preliminary, abrasive (polishing, bright polishing and finishing)
- 7) The appropriate methods and uses of chemicals for removal of polishing residue
- 8) How to use lathe and pendant motors
- 9) How to finish plated items
- 10) The polishing techniques for non-metallic materials
- 11) How to identify faults; the kinds of difficulties the specification might present and the appropriate actions to rectify these
- 12) How to identify surface treatment and how to achieve the desired effect
- 13) The sequence of application to remove surface marks

## **Range**

### **You are required to:**

A. Polish work on all of the following **materials**:

- (i) Silver
- (ii) Gold
- (iii) Platinum
- (iv) Palladium

B. Finish work using at least three of the following **techniques**:

- (i) Polishing lathe
- (ii) Pendant motor
- (iii) Metal colouring
- (iv) Barrel-polishing
- (v) Electro-polishing
- (vi) Lacquering
- (vii) Lapping