

J4.6 Form silverware components using advanced techniques SQA Unit Code H9TY 04

Unit Summary

This unit covers the skills and knowledge required to plan and form more complex silverware components, using advanced Silversmithing techniques. You will need knowledge of planning, organising, and know how to communicate your design ideas to others, You will be required to communicate your own work schedule instructions and to use a range of hand and machine techniques appropriate to the type of material used. You will be expected to take personal responsibility for your own actions and for the quality and accuracy of the work you carry out. You need to be able to recognize 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) Produce a range of silverware that involves a wide range of **techniques**:
- b) Try the components to confirm they meet the tolerances required
- c) Produce both large scale and small scale **silver hollowware**
- d) Check that the completed work/work pieces are dimensionally accurate, correctly formed and free from excessive tooling, stretching and blemishes

Knowledge and Understanding

You will know and understand:

- 1) The specific safety precaution to be taken when using hand and machine tools
- 2) Methods to illustrate and communicate ideas for silverware design
- 3) The methods used to calculate dimensional information for producing components
- 4) Methods of creating complex three-dimensional silverware forms
- 5) The combination of techniques and processes and knowledge of holding other precious materials applied or added as a decorative finish
- 6) With basic knowledge of metallurgy be able to identify the physical and working properties of materials associated with silversmithing and how to utilize them
- 7) How to select and use the correct equipment, tools and materials suitable for making jigs or aids to creating single and double curvature forms for the design
- 8) How to apply and use additional forming techniques to fabricate complex silverware
- 9) CNC, laser and advanced technologies available in the production of silverware
- 10) How to check finished work pieces for dimensional accuracy.

Range

You are required to:

- A. Produce a range of silverware that involves all of the following **techniques**
 - (i) Make custom tool and/or jig
 - (ii) Irregular blocking/raising
 - (iii) Loaded mounts
 - (iv) Flat Hammering
 - (v) Multi-part items
 - (vi) Hand piercing
 - (vii) Forging
 - (viii) Scoring and folding