

Perform restoration to jewellery or silverware

Overview

This standard covers the skills to repair and restore jewellery or silverware.

****Restoration** refers to any artefact 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 individuals to have specialist knowledge and expertise, gained through experience in own craft speciality.

They 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. They will be expected to take personal responsibility for their own actions and for the quality and accuracy of the work carried out.

Perform restoration to jewellery or silverware

Performance criteria

You must be able to:

1. research repair techniques for different materials and styles of jewellery or silverware in line with different project needs
2. review the condition of client's artefacts in line with industry best practice
3. draw a plan for repair and restoration work which reflects the needs of the client and the needs of the artefact in line with industry best practice
4. conduct repairs and restorations on jewellery or silverware in line with industry best practice
5. keep records and photographs of all repair and restoration work completed in line with industry best practice
6. seek support and guidance issues outside of own experience arise in line with workplace instructions
7. work with materials, tools and equipment to complete a wide **range of repairs** in line with industry best practice
8. check the work for defects in line with project needs
9. take action to rectify any defects detected in line with industry best practice
10. complete the work to the given specification in line with workplace instructions

Perform restoration to jewellery or silverware

Knowledge and understanding

You need to know and understand:

1. safety precautions to be taken when repairing and restoring items
2. historical techniques and features
3. principles of hallmarking
4. methods of protecting the existing condition and patina
5. methods of avoiding damage and risk
6. ways to calculate dimensional information for producing components
7. methods of creating complex three-dimensional forms
8. basic gemmology and metallurgy
9. specialist materials and finishes
10. physical and working properties of different metals
11. heat treatment techniques
12. when and how to say no to repair work
13. tools and equipment for prescribed tasks and processes
14. advanced jewellery and silversmithing construction techniques
15. how to check the finished work meets the specification required
16. who to ask for support and when to do so
17. common faults that can occur with the techniques, processes and tools being used and ways to avoid these
18. the safe use of chemicals
19. how to check that the repairs and restoration meet the needs of the specification
20. best practice in repairs and restoration within chosen industry
21. the importance of following the given specification and timescales
22. common defects and how to rectify them

Perform restoration to jewellery or silverware

Scope/range

Repairs for jewellers and silversmiths can include:

Group 1

Jewellery:

1. repair bracelet joint and hinges
2. re-tip claws
3. size rings in various metals including Platinum
4. fit new shanks (yellow and white gold)
5. repair various snaps on necklace/bracelets
6. fit new joint, pin and catch on brooches
7. repairing chains

Silverware:

1. repair an item of silver cutlery
2. fit a new handle on a jug or tea/coffee pot
3. remove dents from a jug or vase
4. replace the lid on a box or case
5. remove lettering and re-engrave

Polishing and Finishing:

1. recognise original treatment and achieve a matching finish
2. select the appropriate compounds to polish

Perform restoration to jewellery or silverware

3. hand polishing and threading
4. burnishing
5. removing polish residue with regard to component parts and precious gemstones

Settings:

1. check for flaws or cracks
2. check stones for surface damage
3. remove damaged stones
4. set replacement stones in the original setting
5. set original stone in re-tipped setting
6. clean settings to match original

Perform restoration to jewellery or silverware

Developed by	Creative & Cultural Skills
Version Number	2
Date Approved	14 Aug 2015
Indicative Review Date	14 Aug 2018
Validity	Current
Status	Original
Originating Organisation	Creative & Cultural Skills
Original URN	CCSJ4.19
Relevant Occupations	Design Associate Professionals, Skilled Trades NEC
Suite	Jewellery Manufacture, Silversmithing and Allied Trades
Keywords	Jewellery; design; technique; product; repair; restoration; silverware; silversmithing; silverwork; conservation; historical