

## Overview

This standard covers the skills to produce jewellery or silverware, using a range of mechanical joining techniques such as pegs and cheniers, riveting, screw threads, and hinges. You will use range of materials to be mechanically joined both precious and non-precious, and metallic and non-metallic.

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 will 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 specification.

## Performance criteria

### *You must be able to:*

1. join different components using a range of mechanical methods in line with industry best practice
2. produce a range of products with mechanical joined components in line with industry best practice
3. check components are dimensionally accurate, the forming is correct and there are no excessive marks visible in line project needs
4. seek support and guidance when problems arise in line with workplace instructions
5. check the work for defects in line with project needs
6. take action to rectify any defects detected in line with workplace instructions
7. complete the work to the given specification in line with workplace instructions

## Knowledge and understanding

### *You need to know and understand:*

1. safety precautions to be taken when using mechanical joining methods
2. range of advanced mechanical joining techniques
3. range of materials to be joined both precious and non precious, metallic and non-metallic
4. joining methods
5. range of mechanical fixings
6. the importance of dry assembling components together before carrying out the joining operations
7. methods to join components that retain the appearance whilst maintaining the integrity of the joint
8. who to ask for support and when to do so
9. how to check finished work pieces for dimensional accuracy
10. how to check that the mechanical joining meets the needs of the specification
11. best practice in mechanical joining within chosen jewellery industry
12. the importance of following the given specification and timescales
13. common defects and ways to rectify these

## Scope/range

1.

**Mechanical methods** can include:

- 1.1 pegs and cheniers
- 1.2 riveting
- 1.3 screw threads
- 1.4 hinges

Use mechanical methods of joining jewellery or silverware

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**Developed by** Creative & Cultural Skills

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**Relevant Occupations** Design Associate Professionals, Skilled Trades NEC

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**Suite** Jewellery Manufacture, Silversmithing and Allied Trades

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