

## Produce spun products using advanced techniques

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### Overview

This standard covers the skills to produce complex large scale and small scale spun products using advanced techniques such as spin on air, split or sectional chucks and multi-part items as well as heat treatments.

In producing spun products, you will work with different materials and to instructions and use a range of hand and machine equipment. You will take personal responsibility for your actions and for the quality and accuracy of the work carried out.

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### Performance criteria

#### *You must be able to:*

1. research the range of hand and machine techniques used in spun products in line with project needs
2. produce complex spun items using a range of advanced **techniques** in line with industry best practice
3. create spun items of varying **sizes** in line with workplace instructions
4. produce spun items from a range of materials for different projects in line with industry best practice
5. check components are dimensionally accurate, the forming is correct and there are no excessive marks visible in line with project needs
6. check the work for defects in line with project needs
7. take action to rectify any defects detected in line with industry best practice
8. complete the work to the given specification in line with workplace instructions

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## Knowledge and understanding

*You need to know and understand:*

1. safety precautions to be taken when producing spun silverware
2. methods of creating complex spun forms
3. processes of applying surface decoration on the lathe
4. heat treatment techniques
5. physical and working properties of metals
6. tools and equipment for prescribed tasks and processes
7. how to check work pieces for dimensional accuracy
8. the materials suitable for making chucks for spinning
9. advanced forming techniques
10. complex silversmithing construction techniques
11. CNC, laser and advanced technologies available for the production of silverware
12. how to check that the spun silverware meets the needs of the specification
13. best practice in spun silverware within chosen industry
14. the importance of following the given specification and timescale
15. common defects and ways to rectify these

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### Scope/range

1. Produce spun items using all of the following **techniques**:

1. spin on air
2. split or sectional chucks
3. multi-part items

2. Produce a range of items of the following **sizes**:

1. large scale work
2. small scale work

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