



Australian Government

MEM19016 Construct jewellery components

Release: 1

MEM19016 Construct jewellery components

Modification History

Release 1. Supersedes and is equivalent to MEM19016B Construct jewellery components

Application

This unit of competency defines the skills and knowledge required to transfer designs and construct jewellery components or single-piece items.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: A

Unit Weight: 4

Pre-requisite Unit

MEM05006	Perform brazing and/or silver soldering
MEM11011	Undertake manual handling
MEM12023	Perform engineering measurements
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Competency Field

Jewellery and horological

Elements and Performance Criteria

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|--|-----|---|
| | | 1.3 | Use appropriate personal protective equipment (PPE) in accordance with SOPs |
| | | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2 | Transfer designs and produce 2-D patterns | 2.1 | Identify design features and requirements |
| | | 2.2 | Prepare work pieces for drawing transfer |
| | | 2.3 | Transfer accurate representations of component specifications onto templates or work pieces with minimal material wastage |
| | | 2.4 | Produce patterns or blanks to specification |
| 3 | Form and finish components or item | 3.1 | Follow design markings to form component or item and ensure conformity to design requirements |
| | | 3.2 | Select appropriate tools and equipment for forming, joining and finishing |
| | | 3.3 | Join components or formed items according to specifications |
| | | 3.4 | Finish components or items to specification |

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Forming methods include one (1) or more of the following:

- cutting
- folding
- bending
- curving
- dapping

Joining methods include one (1) or more of the following:

- brazing
- silver soldering
- riveting

Finishing processes include one (1) or more of the following:

- filing
- emery finishing
- basic polishing

Transfer methods include the use of one (1) or more of the following:

- direct transfer
- copied to template and adhered to work piece
- carbon paper tracing

Transfer tools include one (1) or more of the following:

- permanent pen
- scribe
- freehand
- compass
- dividers
- chinagraph
- pencil
- carbon paper

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Tools and equipment include one (1) or more of the following:

- compass
- dividers
- rules
- squares
- spring gauges
- vernier calipers
- piercing saw
- files
- drill press
- pedestal drill
- polishing equipment and compounds
- ultrasonic cleaner

Metals and consumables include one (1) or more of the following:

- precious metals
- non-precious metals
- solders
- fluxes
- drills
- blades
- polishing compounds
- cleaning materials
- finishing materials
- adhesives

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>