



Australian Government

MEM19017 Fabricate jewellery items

Release: 1

MEM19017 Fabricate jewellery items

Modification History

Release 1. Supersedes and is equivalent to MEM19017B Fabricate jewellery items

Application

This unit of competency defines the skills and knowledge required to use fabrication techniques to construct jewellery components, single and multiple-piece items.

Where electroplating skills are required to be used unit MEM08003 Perform electroplating operations should also be selected.

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

Band: A

Unit Weight: 6

Pre-requisite Unit

MEM05006	Perform brazing and/or silver soldering
MEM06007	Perform basic incidental heat/quenching, tempering and annealing
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.

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1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		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	Prepare for fabrication	2.1	Assess item design characteristics, dimensions, construction, composition and finish to select appropriate preparation and fabrication techniques
		2.2	Prioritise and plan work to meet designated timeframes and specific fabrication requirements
		2.3	Select and obtain components, materials and consumables in accordance with SOPs
		2.4	Prepare metals to required quality and dimensions
		2.5	Select tools and equipment appropriate to job requirements and check for operational effectiveness
3	Fabricate and finish jewellery item	3.1	Perform fabrication activities using safe operating practices in accordance with SOPs
		3.2	Check item to ensure construction conforms to required specifications, quality, procedures
		3.3	Conduct surface finishing to required specifications
		3.4	Conduct embellishing and polishing to required specifications
4	Complete work	4.1	Package and present finished item and store according to SOPs
		4.2	Complete and process documentation

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

- 4.3 Collect and reclaim excess materials, clean work area, tools and equipment and store in accordance with SOPs

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.

Components include one (1) or more of the following:

- single-piece items
- multiple-piece items
- clips
- catches
- pins

Materials 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

Preparation techniques include one (1) or more of the following:

- alloy
- cutting
- drawing down
- rolling

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Fabrication techniques include one (1) or more of the following:

- cutting
- folding
- bending
- curving
- dapping
- drawing
- rolling
- doming
- annealing
- melting
- granulation
- brazing
- silver soldering
- riveting

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

- filing
- emery finishing
- high polish
- satin polish
- sandblasting
- brushing
- burring
- reticulation
- burnishing

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>