



Australian Government

MEM19051 Construct multiple stone settings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19051A Construct multiple stone settings.

Application

This unit of competency defines the skills and knowledge required to construct jewellery that incorporates multiple stone settings and clusters in pieces such as rings, brooches and pendants. It will involve construction techniques such as bezel, shank, claw and eternity rings.

This unit applies to individuals involved in jewellery manufacture in a small or large-scale production context. They use and adapt technical skills and knowledge to produce work that meets pre-determined design and production requirements.

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

Band: B

Unit Weight: 4

Pre-requisite Unit

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

MEM19045 Set gems in channel style settings

MEM19047 Set gems in claw and bezel style settings

Competency Field

Jewellery

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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 personal protective equipment (PPE) in accordance with SOPs

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Interpret specifications or design to determine customer requirements
2. Research setting styles	2.1 Conduct research into design features to inform work 2.2 Conduct research into traditional and contemporary trends, styles and applications of jewellery containing multiple stone settings 2.3 Document findings and methods of construction as basis for work practice
3. Construct stone setting	3.1 Plan construction, materials and equipment based on job requirements 3.2 Estimate costs and confirm viability in accordance with workplace procedures 3.3 Source materials, equipment and components required to complete work 3.4 Apply construction techniques to meet design specifications
4. Finish work	4.1 Check work against quality and client requirements and rectify any deficiencies 4.2 Determine and use safe cleaning techniques for item to ensure features are protected from damage in readiness for presentation to client 4.3 Complete documentation in accordance with workplace procedures 4.4 Clean up and maintain production environment and equipment in accordance with SOPs

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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.	
Specifications include one or more of the following:	• drawings • job sheets • work instructions.
Materials include one or more of the following:	• diamond, ruby, sapphire and emerald • lapis lazuli and malachite • amber, coral and ivory, and their synthetics and limitations • rocks • amorphous opal • glass, plastic and composite stones • gold, silver, platinum, palladium, copper and their alloys.
Multiple stone set jewellery includes one or more of the following:	• coronet cluster rings and pendants • wire cluster rings • individual setting eternity rings • carved eternity rings • ribbon style brooches or pendants • plate setting brooches.
Construction techniques include one or more of the following:	• bezel • shank • claw • eternity rings.
Environmental requirements include one or more of the following:	• liquid and solid waste • emissions (gas, fume, vapour, smoke, fugitive emissions or dust) • excessive noise • excessive energy and water use.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19051A Construct multiple stone settings.

Links

Companion Volume implementation guides are found in VETNet -

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