



Australian Government

MEM19008 Prepare jewellery designs

Release: 1

MEM19008 Prepare jewellery designs

Modification History

Release 1. Supersedes and is equivalent to MEM19008B Prepare jewellery designs

Application

This unit of competency defines the skills and knowledge required to prepare designs and associated documentation required to inform manufacture of jewellery items.

Where computer-aided design (CAD) is required to be used appropriate units should also be selected.

Where jewellery illustrations only are prepared unit MEM19002 Prepare jewellery illustrations 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

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

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

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, design documentation, illustrations, design drawings, job sheets or work instructions |
| 2 | Identify design requirements | 2.1 | Determine design requirements, purpose and needs |
| | | 2.2 | Undertake further research and idea development |
| | | 2.3 | Consolidate information and analyse |
| | | 2.4 | Advise customer on design considerations and limitations and gain further clarification, as necessary |
| 3 | Develop design concept | 3.1 | Develop concept, employing design principles |
| | | 3.2 | Document design process |
| | | 3.3 | Establish basic forms and proportion |
| | | 3.4 | Apply required decorative aesthetics |
| | | 3.5 | Confirm design concept |
| 4 | Produce drawings for item manufacture | 4.1 | Select appropriate manufacturing technologies |
| | | 4.2 | Apply drawing techniques in drawing development |
| | | 4.3 | Produce working technical and finished drawings |
| | | 4.4 | Specify production requirements and instructions and communicate to appropriate persons |

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.

Design requirements include one (1) or more of the following:	• materials • stone specifications • special requirements • size • budgetary range • end-use • special customer requirements
Design principles include one (1) or more of the following:	• correct construction techniques • construction limitations of materials • drawing to scale • form, function, harmony and line definition (interpretive and actual)
Design concept includes one (1) or more of the following:	• balance • proportion • highlights • shadowing • texturing effects • decorative aesthetics
Sources of information for jewellery design include one (1) or more of the following:	• specifications • design documentation • illustrations • design drawings • job sheets • work instructions
Decorative aesthetics include one (1) or more of the following surface finishing techniques:	• sandblasting • polishing • electroplating
Manufacturing technologies include one (1) or more of the	• hand-fabrication techniques • computer numerically controlled (CNC) processes • mass finishing activities

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.

following:

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

- cones
- cylinders
- cube
- rectangle
- sphere
- 3-D concept
- axis lines
- conversion of 2-D to 3-D concepts
- depth
- perspective
- scale (1,2 and 3 point)
- use of drawing media, including paper, watercolour, pastel, ink and pencil
- use of drawing tools, including stencils and rubbers

**Preparation of designs
includes one (1) or more
of the following:**

- manual drawing techniques
- 2-D CAD applications
- 3-D CAD applications

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>