



Australian Government

MEM19031 Produce renderings and technical drawings for jewellery or object design construction

Release: 1

MEM19031 Produce renderings and technical drawings for jewellery or object design construction

Modification History

Release 1. Supersedes and is equivalent to MEM19031A Produce renderings and technical drawings for jewellery and object design construction.

Application

This unit of competency defines the skills and knowledge required to produce renderings and technical drawings to enable design construction.

This unit applies to jewellery and object designers, and to situations where the design has been finalised. The drawings and renderings would typically be used to develop production concepts, for marketing, or to record details necessary for construction by self or others.

Where the production of jewellery illustrations is required for practical application or trade work, such as manufacturing, modifying or repairing jewellery items, see unit MEM19002 Prepare jewellery illustrations.

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

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify job requirements from specifications
2. Produce drawing or render	2.1 Select media and equipment and identify and collect data in accordance with job requirements 2.2 Plan the stages, materials, tools and equipment for drawing or render for efficient process 2.3 Produce drawing or render in a manner that maximises visual appeal of jewellery or object design features while conveying technical details necessary for construction 2.4 Apply drawing protocols to specify required construction details and dimensions 2.5 Check and confirm drawing or render and accompanying documentation are consistent with design
3. Finalise drawing for presentation	3.1 Select drawing presentation and production technique that enhances impact of jewellery or object design features and its appeal to the intended audience 3.2 Handle and issue working and reference drawings in accordance with SOPs 3.3 Prepare required supporting information to accompany drawing

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:	• job sheets • sketches • work instructions.
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Design features include one or more of the following:	• materials • dimensions • colour • texture • scale.
Appropriate equipment includes one or more of the following:	• compass • set square • ruler • graphite/colour pencils • cartridge paper • pencils • ink (brush, pen or wash) • charcoal (natural or compressed) • conte • crayons • gouache • coloured pencils • felt tip markers • paper (a range of weights, textures and colours) • collage • paints.
Accompanying documentation includes one or more of the following:	• specific design information • recommendations.
Drawing presentation and production techniques include one or more of the following:	• type and grade of paper • printing • digital format.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19031A Produce renderings and technical drawings for jewellery and object design construction.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MEM19031 Produce renderings and technical drawings for jewellery or object design construction

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and collecting data necessary from the specifications and design features to produce the drawing or render
- selecting equipment appropriate to the illustration method and requirements
- using colour, contour, shadow and highlight techniques for emphasis to display jewellery or object design concept
- using drawings to demonstrate the technical and visual features of jewellery or object design which will enable construction according to design requirements, on at least two occasions
- preparing and presenting drawings and supporting information that will appeal to the specific needs of the intended audience, including specific design information and recommendations, on at least two occasions.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures
- documentation, storage and retrieval processes
- isometric and orthographic drawing perspectives
- drawing equipment and applications, storage and maintenance
- drawing methods, protocols and symbols used in technical drawings for jewellery or object manufacture
- rendering applications and techniques and tools for the creation of illustration effects
- jewellery or object design features and decorative finishes
- properties of metals used in practical manufacturing applications
- options available for drawing presentation.

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Assessment Conditions

- Assessors must:
 - have vocational competency in producing renderings and technical drawings for jewellery or object design construction at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible, assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate
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