



Australian Government

MEM19025 Create and present designs for jewellery or other 3D objects

Release: 1

MEM19025 Create and present designs for jewellery or other 3D objects

Modification History

Release 1. Supersedes and is equivalent to MEM19025A Create and present designs for jewellery and other 3D objects.

Application

This unit of competency defines the skills and knowledge required to apply creative processes to develop and present jewellery or object design solutions. The design solution is developed and presented in a manner that confirms all features of the item.

This unit applies to jewellery and object designers who follow the design process to create solutions in response to a specific design brief.

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

Band: A

Unit Weight: 4

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 1.3 Identify job requirements from specifications
2. Prepare for design	2.1 Determine implications for design process from design brief

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
process	2.2 Develop work plan of activities that identifies and prioritises tasks 2.3 Identify and collect required numerical and other data 2.4 Select and prepare appropriate media and equipment
3. Apply design processes to develop concepts	3.1 Conduct research to inform generation of ideas and design concepts for jewellery or object 3.2 Complete drawings to develop ideas and gain perspectives and views for jewellery or object 3.3 Develop design concepts with consideration of elements and principles of design 3.4 Assess design implications of specialist jewellery or object production techniques and apply to design concepts 3.5 Identify and consider characteristics of jewellery or object materials to the development of design concepts and determine most suitable options 3.6 Apply creative processes of exploration and experimentation to develop jewellery or object design concepts 3.7 Establish basic forms and proportions based on outcomes of the design process
4. Refine design concepts and select solution	4.1 Assess concepts for production viability and adherence to design brief 4.2 Identify key stakeholders and discuss concepts, seeking feedback on design 4.3 Select and refine design solution based on feedback and further testing 4.4 Develop work plan that clearly outlines activities and design specifications 4.5 Document design process providing clear information on the path to chosen design solution
5. Document and present design solution	5.1 Prepare documentation and drawings of design solution that clearly demonstrate features and specifications 5.2 Present design solution to client or relevant personnel and seek feedback 5.3 Determine success in meeting design through evaluation of design process and outcomes

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.
Design features include one or more of the following:	• materials • dimensions • scale • special requirements • finish • texture • balance • contrast • composition • layers.
Design parameters include one or more of the following:	• materials • stones and gems • colours • historical and cultural features • context • function • purpose • size and shape • cost.
Specialist techniques include one or more of the following:	• anodising • patination • other surface treatments • enamelling • married metals

	• mokume gane • fusion • forging • stone setting • hollow forming.
Creative processes include one or more of the following:	• drawing and illustration using manual or computer-aided methods • application of specialist techniques • experimentation • manipulation • research • modelling • collaboration • brainstorming • lateral thinking • problem definition and problem solving.
Appropriate personnel include one or more of the following:	• supervisor • manager • trainer • mentor • team member.
Design documents include one or more of the following:	• sketches • illustrations • concept drawings • working drawings • technical data • digital data • supporting information.
Elements and principles of design include one or more of the following:	• construction techniques • construction limitations of materials • drawing to scale for designs • form and function • line and line definition (interpretive and actual) • balance and harmony • colour • shape, mass and proportion • movement, texture, repetition, space and rhythm • contrast, composition and scale.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19025A Create and present designs for jewellery and other 3D objects.

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 MEM19025 Create and present designs for jewellery or other 3D objects

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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
- analysing a design brief and features and determining key parameters
- assessing specialist jewellery or object production processes and techniques and determining most suitable option
- applying creative processes to develop and refine design concepts on at least two occasions
- undertaking numerical operations and calculations associated with creating and presenting designs for jewellery or other 3D objects
- preparing and presenting design concepts to appeal to the specific needs of the intended audience on at least two occasions
- evaluating success of design in meeting design brief with appropriate personnel.

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
- research resources and techniques for investigating design information
- types of documents used during the design process
- jewellery or object design features and parameters
- elements and principles of design as they relate to design of jewellery or objects
- working properties of materials
- methods of production for jewellery or objects
- specialist techniques used in jewellery or object manufacture
- design resources
- creative processes for idea development
- appropriate people with whom to discuss design concepts

- drawing media and their functions and applications
- computer drawing and design software
- form drawing development
- options available for drawing presentation
- enhancement techniques
- types of working drawings and their uses
- interrelation between technical and design drawings.
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Assessment Conditions

- Assessors must:
 - have vocational competency in creating and presenting designs for jewellery or other 3D objects 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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