



Australian Government

MEM19053 Create complex findings and mechanisms for jewellery items

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19053A Create complex findings and mechanisms for jewellery items.

Application

This unit of competency defines the skills and knowledge required to design and produce jewellery, which includes complex findings and mechanisms. It includes assessing the application of the design brief in the final outcome.

This unit applies to individuals designing jewellery in a small or large-scale production context. They use and adapt both creative and technical skills and knowledge to produce work.

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

MEM19005 Produce three-dimensional precision items

MEM19017 Fabricate jewellery items

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 Use personal protective equipment (PPE) in accordance with SOPs 1.4 Determine client requirements for jewellery findings and mechanisms
2. Design and develop a concept from a design brief	2.1 Identify and evaluate relevant research information, references and resources to the design process 2.2 Record concept development through drawings, notations and design options 2.3 Prepare production plans for selected design solution and refine design in response to production considerations 2.4 Produce a model or maquette of the selected design based on requirements of the brief 2.5 Determine and obtain resources and equipment to undertake the task
3. Produce complex findings and mechanisms	3.1 Determine appropriate jewellery techniques and equipment through testing and experimentation 3.2 Select and apply jewellery techniques and processes to produce the item 3.3 Determine finding and mechanism most suitable for the design and functionality of the jewellery item 3.4 Produce and attach finding and mechanism to the item using selected techniques 3.5 Select and apply surface finishing techniques to the item based on design requirements and prepare for presentation to the client 3.6 Identify and address production problems or inconsistencies based on knowledge of process and materials
4. Evaluate objects for meeting the design brief	4.1 Test objects for function against the design brief 4.2 Re-work, repair or recycle non-compliant objects in accordance with workplace procedures 4.3 Evaluate and document design processes 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.

Appropriate personnel include one or more of the following:	• supervisor • manager • trainer • mentor • team member • client.
Findings and mechanisms include one or more of the following:	• catches for bracelets • catches for necklets • removable pearl enhancers or pendants • sliding brooch fittings and safety locks • threaded or hinged earring clips • spring-loaded mechanisms • multi-functional jewellery items.
Jewellery production includes one or more of the following:	• maquette production • soldering • fusing • crimping • folding • forging • hinge making • fabricating • forming.
Surface finishing techniques include one or more of the following:	• electroplating • planishing • patination • polishing • burnishing • heat treating.
Tools and equipment include one or more of the	• hammers • stakes

following:	• files • vices.
Environmental requirements include one or more of the following:	• liquid waste • solid waste • emissions (gas, fume, vapour, smoke, fugitive emissions or dust) • excessive energy and water use • excessive noise.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19053A Create complex findings and mechanisms for jewellery items.

Links

Companion Volume implementation guides are found in VETNet -

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