



Australian Government

MEM19033 Create silversmithing objects

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19033A Create silversmithing objects.

Application

This unit of competency defines the skills and knowledge required to design and create objects such as functional tableware, flatware or large sculptural forms applying a range of silversmithing techniques. It includes assessing the application of the design brief in the final outcome.

This unit applies to individuals involved in jewellery design or manufacture in a small or large-scale production context. They use and adapt 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

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 1.4 Identify job requirements from specifications

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Design and develop a concept from a design brief	2.1 Identify and evaluate research information, references and resources relevant to the design process 2.2 Record concept development through drawings, notations and design options 2.3 Prepare production plans for selected design solutions and make any required refinements 2.4 Produce a model or maquette of the selected design 2.5 Determine and obtain resources and equipment to undertake the task
3. Produce objects using silversmithing techniques	3.1 Determine appropriate silversmithing techniques and equipment through testing and experimenting 3.2 Select and apply silversmithing techniques and processes to produce objects 3.3 Apply surface finishing techniques to objects based on design requirements 3.4 Identify and consult appropriate personnel to ensure that work is coordinated effectively with others 3.5 Make decisions on dealing with unexpected situations based on discussions with appropriate personnel
4. Evaluate object for meeting the design brief	4.1 Test object for function against the design brief and take required remedial action 4.2 Evaluate and document design processes from concept to production 4.3 Clean up and maintain production environment in accordance with workplace procedures 4.4 Apply control measures to hazardous substances according to environmental requirements

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.
Silversmithing includes one or more of the following:	• maquette production • sinking • crimping • raising • spinning • planishing • forging • hinge making • fabricating • forming.
Surface finishing techniques include one or more of the following:	• electroplating • planishing • patination • polishing • burnishing • heat treating.
Appropriate personnel include one or more of the following:	• supervisor • manager • trainer • mentor • team member • client.
Environmental requirements include one or more of the following:	• liquid waste • solid waste • emissions (gas, fumes, vapour, smoke, fugitive emissions or dust) • excessive energy and water use • excessive noise.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19033A Create silversmithing objects.

Links

Companion Volume implementation guides are found in VETNet -

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