



Australian Government

MEM19041 Experiment with jewellery or object designs

Release: 1

MEM19041 Experiment with jewellery or object designs

Modification History

Release 1. Supersedes and is equivalent to MEM19041A Experiment with jewellery or object designs.

Application

This unit of competency defines the skills and knowledge required to apply technical and design skills to trial experimental designs and techniques. It targets the creative process to inform development of design concepts for custom production or exhibition.

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 create design solutions.

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

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
2. Conduct research into jewellery or object design	2.1 Confirm objectives and parameters for design process 2.2 Access and analyse local and international information on

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	jewellery or object design, materials and production trends 2.3 Identify trends in local and international market conditions 2.4 Determine impact of sustainability considerations on jewellery or object design 2.5 Identify opportunities for jewellery or object design 2.6 Determine funding opportunities for design development
3. Apply creative process to develop design concepts	3.1 Examine possible future directions for jewellery or object design from research 3.2 Scope future directions to guide concept development 3.3 Use creative design tools and techniques to develop concepts for jewellery or object designs 3.4 Experiment with materials to further develop design concept 3.5 Experiment with jewellery or object construction techniques to further develop design concept 3.6 Apply knowledge of design elements and principles to design concepts 3.7 Document processes and outcomes of experimentation 3.8 Select design concepts for testing
4. Assess design concepts	4.1 Test design concepts with selected personnel, and integrate that will enhance the design 4.2 Determine production processes and requirements for concepts and assess viability of design concepts 4.3 Develop preliminary costings based on key features of design concepts 4.4 Conduct tests to assess quality and viability of design 4.5 Assess design concepts against project objectives and parameters 4.6 Determine viability of jewellery or object designs in current market and assess expected response of intended audience 4.7 Select concept for development based on assessment
5. Confirm and document design proposal	5.1 Review and rework design concept based on outcomes of testing 5.2 Determine and document design specifications and production plan

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.3 Produce proposal for jewellery or object design, including supporting information and documentation

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 • work instructions.
Objectives for design process include one or more of the following:	• exhibition • sale • presentation or display • creative expression • commercial production • custom production • demonstrate ability or for portfolio • develop design skills • innovate new design concepts • marketing or promotion.
Parameters for design process include one or more of the following:	• availability of materials and equipment • budget • timelines • required criteria • design brief.
Market conditions include one or more of the	• fashion trends • price and availability of materials and other resources • disposable income of target market

following:	• purchasing preferences.
Sustainability considerations include one or more of the following:	• impact on environment including generation of waste and by-products resulting from production or end use, and use of precious or rare materials • impact on greater society including health risks to those obtaining materials or providing resources, and community values with regard to design features • impact on economy including contribution to financial wellbeing of community.
Future directions for jewellery or object designs include one or more of the following:	• new uses and applications • new materials • new technologies and equipment • new markets or market conditions • changes to pricing, distribution or other marketing variables.
Elements and principles of design include one or more of the following:	• colour, direction, form and light • line, mass and point • shape and size • space and texture • time, tone and value • balance, contrast and dominance • emphasis and harmony • movement, pattern and proportion • rhythm and unity.
Creative design tools and techniques include one or more of the following:	• colour wheels • collage • materials board • mind mapping • drawings (hand drawings and electronic) • pictures, photographs and images • discussions with others • models, exhibitions and examination of jewellery and objects.
Design tests include one or more of the following:	• market feedback • testing strength of components and whole piece • development and testing of prototypes or models • colour fastness • testing of fixing mechanisms, glues and finishes • protection of precious components • transportability.
Design documentation includes one or more of the following:	• drawings and illustrations • photographs • specifications

	• production plan.
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Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19041A Experiment with jewellery or object designs.

Links

Companion Volume implementation guides are found in VETNet -

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