



Australian Government

**Assessment Requirements for MEM19040
Create and manufacture jewellery or object
design prototypes for the mass market**

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19040A Create and manufacture jewellery or object design prototypes for the mass market.

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 interpreting specifications, SOPs and design documentation for creating and manufacturing jewellery or object design prototypes for the mass market
- analysing jewellery or object markets to identify commercial opportunities by conducting market research
- identifying in-house manufacturing capabilities
- estimating costings of internal and external production, including labour, overheads, materials, tooling, equipment and outsourcing
- undertaking numerical operations, geometry and calculations associated with creating and manufacturing jewellery or object design prototypes
- developing a design brief and determining key parameters
- applying creative processes to develop, refine and test design concepts
- applying knowledge of materials and production processes to jewellery or object design
- planning and producing design prototypes and finalising production specifications on at least two occasions
- preparing and presenting design concepts on at least two occasions to appeal to the specific needs of the intended audience
- evaluating success of design in meeting design brief and commercial objectives.

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 and use of personal protective equipment (PPE)
- difference between one-off, limited edition, series and mass-produced products and the benefits and opportunities for jewellery or object designs

- supply chain management
- outsourcing arrangements
- cost-benefit analysis methods
- research resources and methods for investigating design information
- elements and principles of design as they relate to design of jewellery or objects
- appropriate personnel to consult regarding analysing and refining ideas and testing the design brief
- working properties of jewellery or object materials
- methods of production and manufacturing processes for jewellery or objects
- design resources
- brainstorming and other idea generation techniques for research and idea development
- planning and production requirements for design prototypes
- costing considerations
- requirements for finalising design and production specifications
- elements and principles of design
- design considerations
- drawing media and their functions and applications
- drawing tools and their functions and applications
- design documentation
- form drawing development
- options available for drawing presentation
- enhancement techniques
- types of working drawings and their uses
- interrelation between technical and design drawings
- criteria used to evaluate the design against the design brief and commercial objectives.
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Assessment Conditions

- Assessors must:
 - have vocational competency in creating and manufacturing jewellery or object design prototypes for the mass market 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.

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- 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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Links

Companion Volume implementation guides are found in VETNet -

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