



Australian Government

MEM19043 Oversee jewellery or object design production

Release: 1

MEM19043 Oversee jewellery or object design production

Modification History

Release 1. Supersedes and is equivalent to MEM19043A Oversee jewellery or object design production.

Application

This unit of competency defines the skills and knowledge required to manage the production of jewellery or objects to ensure they comply with design specifications and quality standards. It covers the management of the production process and the implementation of a prototype and includes working with other specialists and industry suppliers to ensure that design specifications and intent are achieved in the final product.

Production can be of one-off or mass-produced items and be manufactured in-house or using external resources.

This unit applies to individuals with extensive skills and knowledge in project management, jewellery or object design, materials and construction techniques.

High-level judgement is required in planning and selecting appropriate processes or procedures.

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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	SOPs
2. Select production processes	2.1 Examine design brief and specifications to determine required production expertise and services for jewellery or object 2.2 Establish quality and service criteria for production processes 2.3 Research possible jewellery or object suppliers or manufacturers and select most suitable resources 2.4 Confirm that production process meets organisational objectives and performance systems 2.5 Document production brief and plan with clear information on process, resources and responsibilities
3. Brief production personnel	3.1 Negotiate production arrangements and establish performance targets with key production personnel 3.2 Assign tasks according to available expertise and production requirements 3.3 Provide and explain jewellery or object design specifications, drawings and all relevant information to production personnel 3.4 Establish relevant technical, monitoring and reporting procedures
4. Monitor production	4.1 Maintain ongoing communication with personnel to ensure obligations, quality, timelines, budget and technical constraints are met 4.2 Address problems and make required production modification decisions 4.3 Ensure production changes are documented and reflected in design documentation 4.4 Monitor production activities to ensure compliance with WHS practices
5. Evaluate final product	5.1 Collate and evaluate information on development process 5.2 Assess jewellery or object outcome against specifications 5.3 Assess production outcomes with personnel to review strengths and weaknesses of process 5.4 Assess actual costs against projected costs and identify reasons for discrepancies 5.5 Complete evaluation, production and design documentation to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	inform reproduction

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.

Quality and service criteria for production includes one or more of the following:	• delivery • material quality • availability of resources • quality of components • standard of work • cost • timelines • capability of personnel • experience • specific expertise.
Production arrangements include one or more of the following:	• costs • timelines • quality standards • key personnel • materials • preferred processes, designs and techniques.
Design documents include one or more of the following:	• sketches • illustrations • concept drawings • working drawings • technical data

	• supporting information • specifications • production plans.
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Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19043A Oversee jewellery or object design production.

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 MEM19043 Oversee jewellery or object design production

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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
- reading and interpreting design documentation
- selecting and planning processes for production on at least two occasions
- briefing personnel and negotiating production arrangements
- ensuring production meets efficiency and quality standards on at least two occasions by solving production problems and monitoring production progress, changes and application of work health and safety (WHS) practices in production operations
- checking and evaluating final product for compliance with specifications, assessing actual costs against projected costs and identifying reasons for any discrepancies
- maintaining accurate records and design documentation.

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)
- quality and service criteria
- supply chain management and outsourcing arrangements
- cost-benefit analysis methods
- research resources and techniques for investigating design information
- elements and principles of design as they relate to design of jewellery and objects
- jewellery or object designs (including shanks, settings styles, shoulders and decorative finishes)
- production arrangements criteria
- criteria for selecting production processes
- information required in briefing production personnel
- preparation requirements before briefing production personnel

- production monitoring techniques and SOPs
- evaluation procedures for the final product, the production process undertaken and the final product costs
- working properties of jewellery materials and methods of production for jewellery and objects
- brainstorming and other idea generation techniques for research and idea development
- drawing media and their functions and applications
- types, uses and key content of design documentation
- drawing presentation and enhancement features
- types of working drawings and their uses and interrelation between technical and design drawings.
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Assessment Conditions

- Assessors must:
 - have vocational competency in overseeing jewellery or object design production 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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