



Australian Government

MEM19038 Apply traditional techniques to jewellery or 3D object production

Release: 1

MEM19038 Apply traditional techniques to jewellery or 3D object production

Modification History

Release 1. Supersedes and is equivalent to MEM19038A Apply traditional techniques to jewellery and 3D object production.

Application

This unit of competency defines the skills and knowledge required to use traditional techniques to produce jewellery or objects. It includes conducting research to assess the suitability of traditional techniques for achieving desired outcomes and identifying and addressing problems, which can arise in reproduction.

This unit applies to individuals involved in jewellery or object manufacture in a small or large-scale production context. They use and adapt technical skills and knowledge to produce work that meets pre-determined design and production requirements.

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

Jeweller

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) and environmental requirements 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 1.4 Identify job requirements from specifications
2. Identify item requiring use of traditional techniques	2.1 Identify and research features and applications of a given traditional jewellery or object production technique 2.2 Establish requirements for applying a given technique to a specified item from source documentation or appropriate persons 2.3 Assess the suitability of the required technique to specific jewellery or object 2.4 Identify potential problems and difficulties and consider alternatives in consultation with appropriate persons
3. Select and source materials and equipment	3.1 Identify and source materials appropriate for production using selected technique 3.2 Obtain or produce tools and equipment appropriate to the technique
4. Apply traditional techniques to produce item	4.1 Identify and plan stages, materials, tools and equipment required for use of the technique 4.2 Identify and use other information and conditions relevant to successfully applying the technique 4.3 Reproduce traditional jewellery or object production technique according to industry standards and client expectations

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:	• drawings • job sheets • work instructions.
Appropriate personnel include one or more of the following:	• supervisor • manager • trainer • mentor • team member • client.
Traditional techniques include one or more of the following:	• filigree • repousse • chasing • granulation • mokume gane • pamor • niello.
Resources include one or more of the following:	• material for given technique • reference publications.
Equipment includes one or more of the following:	• hand tools • power tools • machines.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19038A Apply traditional techniques to jewellery and 3D object 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 MEM19038 Apply traditional techniques to jewellery or 3D object 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
- establishing requirements for applying a given technique from source documentation and in consultation with appropriate personnel
- researching resources for given technique, including material and reference documentation, identifying features and applications of a given traditional technique
- applying traditional technique on at least two occasions to produce item using appropriate tools and equipment
- identifying conditions for successful application of given technique and reproducing technique according to industry standards and client expectations.

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)
- features, applications and development of traditional techniques
- appropriate personnel to consult on the assessment of the suitability of the technique
- problems and difficulties in applying techniques
- guidelines, principles and conditions for successful application of given technique
- stages and steps involved in producing given technique
- tools, equipment and resources for applying given technique.
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Assessment Conditions

- Assessors must:

- have vocational competency in applying traditional techniques to jewellery or 3D object 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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