



Australian Government

MEM19044 Repair and restore antique jewellery

Release: 1

MEM19044 Repair and restore antique jewellery

Modification History

Release 1. Supersedes and is equivalent to MEM19044A Repair and restore antique jewellery.

Application

This unit of competency defines the skills and knowledge required to use jewellery repair techniques in the repair and restoration of antique or traditional jewellery items. It applies to restoration and repair work conducted on antique, traditional or period jewellery where the finish must be consistent with the characteristics of the item and requires the use of jewellery equipment.

This unit applies to individuals involved in jewellery 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

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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Identify job requirements from specifications
2. Determine feasibility of work	2.1 Identify the era and design characteristics of the jewellery item and the materials and construction techniques used 2.2 Conduct research into the item characteristics to inform work 2.3 Examine the item to determine condition and extent of work requirements and determine feasibility of completing work to standard required 2.4 Determine storage and handling requirements for item to ensure protection from damage
3. Plan repair or restoration work	3.1 Determine technical requirements for jewellery item repair or restoration and develop work plan 3.2 Estimate costs and confirm viability against client requirements and budget 3.3 Determine requirement for manufacture of new componentry or sourcing of specialist expertise 3.4 Confirm feasibility of repair work to achieve quality outcome 3.5 Source materials, equipment, components and specialist expertise required to complete work
4. Conduct repair and restoration work	4.1 Select and use tools, equipment, materials and consumables appropriate to job requirements in accordance with manufacturer specifications and SOPs 4.2 Apply repair and restoration techniques to jewellery item in accordance with the style of the item 4.3 Identify and address unforeseen consequences of work on the item 4.4 Perform work in a manner that minimises waste and complies with environmental requirements
5. Finish work	5.1 Ensure work meets client requirements and quality standards and re-work or repair any non-compliance 5.2 Determine safe cleaning techniques for antique item to ensure features are protected from damage 5.3 Clean item and prepare for presentation to client 5.4 Complete documentation on work undertaken in accordance with workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.5 Clean and restore work area in accordance with SOPs

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.
Materials include one or more of the following:	• gold • silver • platinum • precious or semi-precious stones • coral • shells • leather • copper or copper alloys • enamel • glass • ceramic • feathers • insect cases • bone and ivory • hair • paper.
Repair or restoration work includes one or more of the	• wear and tear • chipped stones or enamel

following:	• broken or weak clasps or componentry • scratched surfaces • tarnished or dirty metals • encrusting of components with foreign objects • deterioration • light damage • stains.
Repair and restoration techniques include one or more of the following:	• re-tipping • re-shanking • restoring • new collets • chain repairing • fastening mechanism repairs • replacement or reconstruction of componentry • refinishing • cleaning.
Environmental requirements include one or more of the following:	• liquid waste • solid waste • emissions (gas, fume, vapour, smoke, fugitive emissions or dust) • excessive noise • excessive energy or water use.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM19044A Repair and restore antique jewellery.

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 MEM19044 Repair and restore antique jewellery

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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
- analysing the characteristics of the antique jewellery and materials used
- determining the repair or restoration work
- determining the repair or restoration techniques on at least two occasions
- costing work and confirming feasibility of repair work to achieve quality outcomes with the client
- selecting and using appropriate materials, tools, equipment and repair techniques on at least two occasions to ensure quality standards and client requirements are met
- checking completed work meets client requirements
- identifying and rectifying problems or quality issues
- completing all documentation in accordance with procedures.

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)
- information sources on antique jewellery
- range of techniques used in antique jewellery construction
- reasons for repair and restoration work on antique jewellery
- repair and restoration techniques used for antique jewellery
- characteristics and responses of metals and common materials used in antique jewellery
- reasons for selecting particular metals, construction methods, repair, manufacturing and finishing techniques
- procedures for identifying problems or poor-quality outcomes
- actions to be taken when work does not meet specifications
- environmental considerations for repair and restoration of antique jewellery.

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Assessment Conditions

- Assessors must:
 - have vocational competency in repairing and restoring antique jewellery 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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