



Australian Government

MEM19018 Repair jewellery items

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Modification History

Release	Comments
2	Unit code updated in Application to reflect status.
1	This unit of competency was first released in MEM Manufacturing and Engineering Release 2.0.

Application

This unit of competency defines the skills and knowledge required to establish and complete repair requirements for a range of jewellery items.

Where an estimate or quotation for repair is required to be produced unit MSTGN3023 Estimate and cost jobs should also be selected.

Where setting of jewellery is required unit MEM19007 Perform gemstone setting should also be selected.

If replacement components need to be manufactured for the repair, then appropriate units should also be selected.

Band: This unit has dual status and is to be regarded as both a Specialisation Band A unit and Specialisation Band B unit for progression to C5 (AQF level V).

Unit Weight: 6

Licensing/Regulatory Information

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

Pre-requisite unit(s)

MEM05006	Perform brazing and/or silver soldering
MEM11011	Undertake manual handling
MEM12023	Perform engineering measurements
MEM13003	Work safely with industrial chemicals and materials
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations
MEM19001	Perform jewellery metal casting
MEM19003	Handle gem materials
MEM19016	Construct jewellery components
MEM19017	Fabricate jewellery items

Competency field(s)

Jewellery and horological

Unit sector(s)

N/A

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
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 appropriate personal protective equipment (PPE) in accordance with SOPs 1.4 Identify job requirements from specifications, drawings, job sheets or work instructions
2. Assess item condition	2.1 Identify item characteristics, construction and composition 2.2 Assess condition of item and the nature and extent of damage in accordance with SOPs 2.3 Obtain assessment information and advice as required
3. Establish repair requirements and materials	3.1 Establish repair requirements, options and recommended actions in accordance with SOPs and factors impacting on feasibility of repair 3.2 Convey recommended repairs and options to client and confirm required repair work

	3.3 Select appropriate repair techniques in accordance with item construction and condition 3.4 Obtain or manufacture replacement components in accordance with SOPs
4. Carry out repairs	4.1 Select and prepare tools, equipment, materials and consumables for job requirements 4.2 Identify and address unforeseen effects of the repair work and minimise evidence of the repair 4.3 Ensure repaired item conforms to original specifications and identified customer requirements
5. Finalise repair	5.1 Package or present finished item and store safely 5.2 Complete documentation of repair work 5.3 Collect unused and excess materials and store 5.4 Clean work area, tools and equipment and store in accordance with SOPs

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

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.	
Factors impacting on feasibility of repair include one (1) or more of the following:	• cost • time • feasibility • value
Repair techniques include one (1) or more of the following:	• retipping • reshank • restoration • new collets

	• chain repairs • fastening mechanism repairs
Unforeseen effects include one (1) or more of the following:	• effects which could be caused by previous construction and repair techniques • effects of the repair process on stones or other components
Tools and equipment include one (1) or more of the following:	• hand tools • power tools • PPE
Materials include one (1) or more of the following:	• precious metals • non-precious metals
Consumables include one (1) or more of the following:	• solders • fluxes • drills • blades • polishing compounds • cleaning materials • finishing materials • adhesives

Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
MEM19018 Repair jewellery items	MEM19018B Repair jewellery items	Supersedes and is equivalent to MEM19018B Repair jewellery items	Equivalent

Assessment Requirements for MEM19018 Repair jewellery items

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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 on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- obtaining information and advice required to assess item and conducting condition assessment
- selecting the appropriate repair technique in accordance with item construction and identifying repair requirements
- carrying out repairs using appropriate tools and equipment
- identifying and addressing unforeseen effects and minimising evidence of repair work
- finalising the repair and documenting repair work in accordance with SOPs.

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)
- techniques and information sources available for assessing jewellery items
- limitations in capacity to repair items
- repair techniques suitable for jewellery items
- potential effects of repair work to stones and components
- reasons for selecting particular metals, construction methods, repair, manufacturing and finishing techniques.

Assessment Conditions

- Assessors must:
 - have vocational competency in repairing jewellery items 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.

Link

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=45a7f1d5-61a5-447a-9688-7abbd7e1a5c7>.