



Australian Government

Department of Education, Employment and Workplace Relations

MEM19044A Repair and restore antique jewellery

Release: 1

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Modification History

New unit

Unit Descriptor

This unit of competency covers the skills and knowledge required to use jewellery repair techniques in the repair and restoration of antique or traditional jewellery items.

Application of the Unit

This unit 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.

Work includes use of jewellery equipment.

Band A

Unit Weight 4

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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|---|-------------------------------------|---|
| 1 | Determine work requirements | 1.1 Clarify client requirements for work |
| | | 1.2 Identify the era and design characteristics of the jewellery item and the materials and construction techniques used |
| | | 1.3 Conduct research into the item characteristics, as required, to inform work |
| | | 1.4 Examine the item to determine condition and extent of work requirements and determine feasibility of completing work to standard required |
| | | 1.5 Determine storage and handling requirements for item to ensure protection from damage |
| 2 | Plan repair or restoration work | 2.1 Determine requirements for jewellery item repair or restoration and develop work plan |
| | | 2.2 Estimate costs and confirm viability against client requirements and budget |
| | | 2.3 Determine requirement for manufacture of new componentry or sourcing of specialist expertise |
| | | 2.4 Confirm feasibility of repair work to achieve quality outcome |
| | | 2.5 Source materials, equipment, components and specialist expertise required to complete work |
| 3 | Conduct repair and restoration work | 3.1 Select and use tools, equipment, materials and consumables appropriate to job requirements in accordance with manufacturer specifications and organisational procedures |
| | | 3.2 Apply repair and restoration techniques to jewellery item in accordance with the style of the item |
| | | 3.3 Identify and address unforeseen consequences of work |
| | | 3.4 Observe occupational health and safety (OHS) requirements and safely operate all workshop equipment used |

- 3.5 Perform work in a manner that minimises waste and complies with environmental requirements
- 4 Finish work
 - 4.1 Check work meets client requirements and quality standards
 - 4.2 Determine safe cleaning techniques for antique item to ensure features are protected from damage
 - 4.3 Clean item and prepare for presentation to client
 - 4.4 Complete documentation on work undertaken
 - 4.5 Clean up work area

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Required skills include:

- reading and interpreting routine information on written job instructions, specifications, standard operating procedures and drawings
- interpreting client requirements
- analysing characteristics of antique jewellery
- costing work
- completing work by hand according to job requirements
- interpreting drawings
- weighing and measuring
- selecting appropriate tools and equipment
- selecting appropriate materials and repair/manufacturing techniques
- applying appropriate fabrication and finishing procedures
- working safely
- identifying alternative metals

Required knowledge

Required knowledge includes:

- information sources on antique jewellery
- range of techniques used in antique jewellery construction
- characteristics and responses of metals and common materials used in antique jewellery
- reasons for selecting particular metals, construction methods, repair/manufacturing and finishing techniques
- workplace hazards and emergency procedures
- use and application of personal protective equipment
- safe work practices and procedures

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	A person who demonstrates competency in this unit must be able to repair and restore a range of antique jewellery items in a manner which is consistent with the style and era of the item.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>Assessors must be satisfied that the candidate can competently and consistently:</p> <ul style="list-style-type: none"> • implement OHS workplace procedures to safely and effectively use jewellery repair and construction equipment and processes • determine the requirements for repair or restoration • source and apply information on antique jewellery • conduct a range of repair and restoration techniques to ensure quality standards and client requirements are met.
Context of and specific resources for assessment	<ul style="list-style-type: none"> • Assessment may occur on the job or in an appropriately simulated environment. Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices. • Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate ethnicity, age, gender, demographics and disability. • Access must be provided to appropriate learning and/or assessment support when required. Where applicable, physical resources should include equipment modified for people with disabilities.
Method of assessment	<ul style="list-style-type: none"> • Assessment must satisfy the endorsed Assessment Guidelines of the MEM05 Metal and Engineering Training Package. • Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge. • Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application.

	<ul style="list-style-type: none"> • Assessment may be applied under project-related conditions (real or simulated) and require evidence of process. • Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances. • Assessment may be in conjunction with assessment of other units of competency where required.
Guidance information for assessment	Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Materials	<p>Materials may include:</p> <ul style="list-style-type: none"> • gold, silver and platinum • precious or semi-precious stones • coral, shells, leather, copper and copper alloys, enamel, glass, ceramic, feathers, insect cases, bone and ivory, hair and paper
Repair or restoration work	<p>Repair or restoration work may relate to:</p> <ul style="list-style-type: none"> • wear and tear • chipped stones or enamel • 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	<p>Repair and restoration techniques may include:</p> <ul style="list-style-type: none"> • retipping • reshank

	<ul style="list-style-type: none"> • restoration • new collets • chain repairs • fastening mechanism repairs • replacement or reconstruction of componentry • refinishing • cleaning
OHS requirements	<p>OHS requirements may include:</p> <ul style="list-style-type: none"> • wearing personal protective equipment in the jewellery workshop • aprons • protective foot wear • eye protection while operating rotary equipment
Environmental requirements	<p>Environmental requirements may relate to:</p> <ul style="list-style-type: none"> • liquid waste • solid waste • gas, fume, vapour, smoke emissions, including fugitive emissions, and dust • excessive energy and water use • excessive noise

Unit Sector(s)

Jewellery

Custom Content Section

Not applicable.