



Australian Government

Department of Education, Employment and Workplace Relations

MEM19006B Replace watch batteries

Release: 1

MEM19006B Replace watch batteries

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers selecting and replacing digital/analogue watch power cells.
------------------------	--

Application of the Unit

Application of the unit	This unit applies to the selection and replacement of digital/analogue watch power cells whilst operating in a jewellery/watch workshop environment with access to the appropriate equipment. Some knowledge of watch glasses and seals is required, however specific replacement functions for these are not covered by this unit. Testing functions relate only to the measurement of voltage, consumption and resistance. This competency does not apply to diver and other water-resistant watch types. Water resistance and pressure testing is not covered by this unit, however identification of watches requiring testing as well as procedures for arranging testing are a requirement of this unit. Where power cell replacements in these two categories are of common practice with associated testing, and/or identification/cleaning/supply/fitting of waterproofing/water resistance components, the appropriate horological units should be selected. Band: A Unit Weight: 1
--------------------------------	---

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		
Path 1	MEM18001C	Use hand tools

Employability Skills Information

Employability skills	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

ELEMENT	PERFORMANCE CRITERIA
1. Identify watch case construction	1.1. Case material and construction is identified. 1.2. Case types and their functions are identified. 1.3. Associated parts and consumables are identified.
2. Open and close watches	2.1. Workshop tools and equipment are selected and used appropriately. 2.2. Watch cases are opened and closed correctly. 2.3. Parts are inspected and results are reported and/or recorded.
3. Select power cells	3.1. Appropriate batteries/power cells are selected.
4. Replace power cells	4.1. General inspection of surface/contact areas is performed. 4.2. Appropriate batteries/power cells are selected and installed. 4.3. Voltage, consumption and resistance are measured. 4.4. Power cells are handled and stored correctly.
5. Arrange water resistance and pressure testing	5.1. Watches requiring water resistance and/or pressure testing are identified. 5.2. Water resistance and pressure testing is arranged.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Look for evidence that confirms skills in:

- handling case, movement and other watch parts
- cleaning case and watch parts
- opening/closing watch cases
- inspecting for obvious damage/wear and/or moisture intrusion.
- inserting and removing batteries
- interpreting charts and information sheets
- measuring voltage/ resistance/consumption
- reading and interpreting routine information on written job instructions,

REQUIRED SKILLS AND KNOWLEDGE

specifications and standard operating procedures. May include drawings

Required knowledge

Look for evidence that confirms knowledge of:

- applicable horological terminology
- design of case types and their functions
- types of batteries/power cells and their functions
- battery cell construction
- cases including water resistant, dustproof and diver's
- analog, digital, multi-function and mechanical watch functions
- wear and the possible effects on glass and adjusters
- the watch-specific tools and equipment
- manufacturers' information/specifications/procedures
- location and cause of moisture and corrosion effects
- handling/cleaning/adjustment procedures
- OH&S issues for mercury and lithium batteries
- appropriate symbols and other identifying relevant standards information and their location
- relevant internal and/or external water resistance and pressure testing bodies/personnel
- arrangements/procedures for dispatch and receipt of watches
- battery features and identification codes
- parts associated with power cell function
- location and cause of moisture and corrosion effects
- watch functions
- procedures to confirm power cell status

Evidence Guide

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 replace digital/analogue watch power cells. Competency in this unit cannot be claimed until all prerequisites have been satisfied.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.

Context of and specific resources for assessment

This unit may be assessed on the job, off the job or a combination of both on and off the job. Where assessment occurs off the job, that is the candidate is not in productive work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.

This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with battery replacement or other units requiring the exercise of the skills and knowledge covered by this unit.

Method of assessment

Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.

Guidance information for

EVIDENCE GUIDE**assessment****Range Statement****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.

Tools and equipment

All hand and power tools appropriate to construction and repair of jewellery items and personal protective equipment

Unit Sector(s)**Unit sector****Co-requisite units****Co-requisite units**

Competency field

Competency field	Jewellery and horological
------------------	---------------------------