



Australian Government

Department of Education, Employment and Workplace Relations

MEM03005B Rework and repair (electrical/electronic production)

Release: 1

MEM03005B Rework and repair (electrical/electronic production)

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers testing assemblies against functional requirements, identifying faults, and repairing or reworking to rectify the faults
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Application of the Unit

Application of the unit	This unit applies to work undertaken on a range of components and circuit boards. Given a range of components and printed circuit boards, faults can be identified in accordance with established procedures, rework and repair. The employee is responsible for the quality of his/her own work. Applications of this unit may also require varying levels of measurement competencies. Band: A Unit Weight: 8
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		
Path 1	MEM03004B	Perform electronic/electrical assembly (production)
	MEM05001B	Perform manual soldering/desoldering -

Prerequisite units		
		electrical/electronic components
	MEM18001C	Use hand tools

Employability Skills Information

Employability skills	This unit contains employability skills.
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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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Perform tests	1.1. Assembly is tested for functional requirements from job sheets. 1.2. Faults in assembly or soldering are identified.
2. Identify cause of fault and rectify fault	2.1. Cause of fault is identified using standard operating procedures. 2.2. Repair and/or rework is completed according to instructions from job cards, drawings, assembly specification. 2.3. Components are safely handled and stored using appropriate anti-static handling procedures and techniques.

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:

- reading, interpreting and following job sheets/instructions, standard operating procedures and assembly drawings
- performing specified tests on the assembly
- identifying assembly or soldering faults and their causes
- obtaining all information relevant to the repair and/or rework to be undertaken
- completing repair and/or rework to specification
- safely handling and storing components
- using anti-static handling procedures and techniques
- following oral instructions

Required knowledge

Look for evidence that confirms knowledge of:

- the functional requirements of the assembly
- assembly tests and methods
- faulty connections and components and their symptoms
- causes of faults in connections and components

REQUIRED SKILLS AND KNOWLEDGE

- the dangers of static electricity to electrical and electronic components
- anti-static procedures and techniques
- safe handling and storage requirements of electrical and electronic components
- safe work practices and procedures

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

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.

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

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 rework and repair (electrical/electronic production) or other units requiring the exercise of the skills and knowledge covered by this unit.

Context of and specific resources for 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.

Method of assessment

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.

EVIDENCE GUIDE**Guidance information for
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.

Unit Sector(s)

Unit sector	
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Co-requisite units

Co-requisite units		

Competency field

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