



Australian Government

Department of Education, Employment and Workplace Relations

MEM03003B Perform sheet and plate assembly

Release: 1

MEM03003B Perform sheet and plate assembly

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	The unit covers assembling prefabricated/formed components using a range of joining techniques.
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Application of the Unit

Application of the unit	<p>This unit applies to production assembly of pre-fabricated/formed components. Applications of this unit may include manufacture of white goods, appliances, electrical cabinets, metal furniture, cladding and shelving, box trailer bodies, ductwork and other sheet and plate assemblies.</p> <p>Where production welding skills are required, refer to Unit MEM05013C (Perform manual production welding).</p> <p>Where soft soldering is required, Unit MEM05003B (Perform soft soldering) should be selected. Where brazing and/or silver soldering is required, Unit MEM05006B (Perform brazing and/or silver soldering) should be selected.</p> <p>Where measurement skills are required, refer to Unit MEM12023A (Perform engineering measurements).</p> <p>Band: A</p> <p>Unit Weight: 4</p>
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		
Path 1	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations

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. Read and understand job sheets	1.1.Job sheets/instruction are correctly interpreted and followed.
2. Select and use sheet and plate assembly equipment	2.1.Assembly equipment is selected in accordance with instructions on job sheet. 2.2.Equipment is used in a safe manner according to standard operating procedures.
3. Assemble fabrications	3.1.Products to be assembled are verified against specifications. 3.2.Assembly is produced following correct sequence of operations. 3.3.Assemblies/fabrications are joined to specification using specified joining techniques. 3.4.Assembly is tested/checked for compliance with job requirements using standard operating procedures.
4. Protect assembly from damage	4.1.Assemblies/fabrications are handled and stored according to standard operating procedures and in a safe manner least likely to cause damage.

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 written job sheets, instructions, standard operating procedures and other applicable reference documents
- checking and clarifying routine familiar information
- selecting and using specified assembly equipment and tools
- following sequence of operations
- joining the components/fabrications correctly and safely using appropriate techniques
- testing and checking assembled products for compliance with specifications
- handling and storing components, fabrications and/or assemblies
- checking for conformance to specifications
- following oral instructions

REQUIRED SKILLS AND KNOWLEDGE**Required knowledge**

Look for evidence that confirms knowledge of:

- the importance of following the sequence of operations
- application and function of assembly equipment
- safety precautions and operating characteristics of assembly equipment and tools
- application and limitations of different joining techniques
- surface preparation and joining techniques
- assembly tests/checks
- safe handling and storage procedures applicable to components, fabrications and/or assemblies
- effects of inappropriate handling and storage procedures
- hazards and control measures associated with sheet and plate assembly
- use and application of personal protective equipment
- safe work practices and procedures for sheet and plate assembly

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 assemble prefabricated/formed components using a variety of joining techniques. 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,s 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. Where assessment occurs off the job, i.e. the candidate is not in productive work, an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies 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 sheet and plate assembly 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.

Assembly equipment

Jigs, fixtures and other appropriate tools

Joining techniques

Seaming, bonding, riveting, welding etc.

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

Competency field

Competency field	Assembly
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