



Australian Government

Department of Education, Employment and Workplace Relations

MEM5.6AA Perform brazing and/or silver soldering

Release: 1

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Modification History

Not applicable.

Unit Descriptor

Not applicable.

Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

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Element	Performance Criteria
1 Prepare materials and equipment	1.1 Job requirements determined from specifications and/ or instructions. 1.2 Materials correctly prepared using appropriate tools and techniques. 1.3 Materials correctly assembled/aligned to meet

- specifications as required.
- 1.4 Distortion prevention measures identified and appropriate action taken as required.
 - 1.5 Heating equipment assembled and set up safely and correctly in accordance with standard operating procedures.
 - 1.6 Correct and appropriate consumables selected and prepared.
 - 1.7 Test run undertaken and verified as required.
- 2 Braze and/or silver solder
- 2.1 Correct and appropriate process selected to meet specifications.
 - 2.2 Materials preheated as required.
 - 2.3 Consumables applied using correct and appropriate techniques.
 - 2.4 Jointing material applied correctly and in appropriate quantities to meet job/specifications.
 - 2.5 Material temperatures normalised using correct and appropriate techniques.
- 3 Inspect joints
- 3.1 Excess jointing materials removed using correct and appropriate techniques.
 - 3.2 Inspection of joints undertaken to standard operating procedures.
 - 3.3 Inspection results reported/recorded using standard operating procedures as required.

Required Skills and Knowledge

Not applicable.

Evidence Guide

Assessment context

This unit may be assessed on the job, off the job or a combination of both on and off the job. 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.

Critical aspects

This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with brazing and/or silver soldering or other units requiring the exercise of the skills and knowledge covered by this unit. Competency in this unit cannot be claimed until all prerequisites have been satisfied.

Assessment conditions

The candidate will be provided with: - All tools, equipment, materials and documentation required. The candidate will be permitted to refer to the following documents: - Any relevant workplace procedures. - Any relevant product and manufacturing specifications. - Any relevant codes, standards, manuals and reference materials. The candidate will be required to: - Orally, or by other methods of communication, answer questions put by the assessor. - Identify colleagues who can be approached for the collection of competency evidence where appropriate. - Present evidence of credit for any off-job training related to 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.

Special notes

During assessment the individual will: - demonstrate safe working practices at all times; - communicate information about processes, events or tasks being undertaken to ensure a safe and efficient working environment; - take responsibility for the quality of their own work; - plan tasks in all situations and review task requirements as appropriate; - perform all tasks in accordance with standard operating procedures; - perform all tasks to specification; - use accepted engineering techniques, practices, processes and workplace procedures. Tasks involved will be completed within reasonable timeframes relating to typical workplace activities.

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Range Statement

Work undertaken in a production or maintenance environment using predetermined standards of quality, safety and work procedures. Work may be undertaken autonomously or within a team environment. Heating medium can include oxyacetylene and fuel gas. Correct and appropriate consumables may include fluxes (resin or powder), all types of silver solder and brazing grades, etc. Correct and appropriate assembly of heating equipment may include cylinders, connections, hoses, tips and nozzles. All work undertaken to legislative and regulatory requirements.

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Unit Sector(s)

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