



Australian Government

Department of Education, Employment and Workplace Relations

SUGSUSF2A Undertake simple fabrication

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to carry out fabrication associated general jobbing work. It achieves part of the outcomes of MEM 5.11AA Assemble fabricated components. A person who has achieved competence in this MEM unit is recognised as competent in this sugar milling unit.

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

| Element | Performance criteria |
|-----------------------------------|--|
| 1. Prepare for assembly of parts | 1.1 Fabrication requirements are identified 1.2 Appropriate fabrication method is selected 1.3 Required materials and equipment are identified and collected 1.4 Materials are prepared for fabrication |
| 2. Assemble fabricated components | 2.1 Components are correctly positioned 2.2 Component positioning is checked against specification 2.3 Components are fixed using appropriate fixing method 2.4 Assembly is checked to confirm conformance to specification |

Required Skills and Knowledge

Not applicable.

Evidence Guide

Evidence guide

The assessment process must address all of the following items of evidence.

Ability to:

1. Identify fabrication requirements. This may involve interpretation of technical drawings and sketches or be based on measurements
2. Select, fit and use personal protective clothing and/or equipment
3. Identify and obtain the required components, equipment and measuring instrumentation
4. Use appropriate equipment to position components ready for joining
5. Check accuracy of component position using measuring instruments as required
6. Prepare ends for joining
7. Identify and correct unacceptable component assembly where appropriate
8. Maintain work area to meet housekeeping standards

Knowledge of:

9. Relevant state OHS legislation, standards and codes of practice relating to work responsibilities
10. Purpose and basic principles of fabrication. This includes knowledge of methods used to assemble and fix components and basic understanding of the effects of distortion on fabricated components
11. Safe work procedures including awareness of health and safety hazards
12. Use of equipment to position components to meet assembly requirements
13. Use of instrumentation to achieve accurate measures
14. Methods used to prepare ends for joining
15. Appropriate joining method
16. Typical defects that can occur given the assembly and fabrication methods used
17. Options for correcting out-of-tolerance fabrication
18. Housekeeping standards for the work area

Relationship with other standards

Pre-requisite units

The pre-requisites for this competency standard are:

- BCC1004A Carry out measurement and calculations
- BCC1005A Use hand and power tools

Co-assessment of related units

Other units of competency relevant to the work role should be assessed in conjunction with this unit.

Where welding is the fixing method to be used, select the appropriate welding unit.

Resources required for assessment

Assessment must occur in a real or simulated workplace where the assessee has access to:

- Fabrication equipment
- Relevant measuring instrumentation
- Components to be fabricated
- Drawings, sketches and specifications as required
- Operating procedures and related advice on equipment/instrumentation operation
- Personal protective clothing and equipment

- Housekeeping standards and procedures

Assessment requirements

For information on how to assess this competency standard and who can assess, refer to the Assessment Guidelines for this Training Package.

Range Statement

Range statement

The range statement indicates the context for demonstrating competence. This statement is a guide and unless otherwise indicated, items may or may not apply as required by the work context.

- Work is carried out in accordance with company policies and procedures, manufacturer's recommendations, legislative requirements, codes of practice and industrial awards and agreements. Codes of practice include the Sugar Milling Operations Industry Code of Practice.
- Components may include general fabricated components in plate, pipe and section or sheet to form 90(or 45(angles or angles formed using pre-constructed jigs
- Typical applications apply to general jobbing work such as fabrication of simple pump bases, signs and brackets
- Typical fixing/joining methods are by welding or screwing
- Materials may include ferrous, non ferrous and non-metallic substances
- Measuring instrumentation may include squares, line levels, rulers and spirit levels
- Work may require the ability to work within a team environment
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Unit Sector(s)

Not applicable.