



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **SUGSPPS2A Perform general planing and shaping operations**

**Revision Number: 1**

## **SUGSPPS2A Perform general planing and shaping operations**

### **Modification History**

Not applicable.

### **Unit Descriptor**

#### **Unit descriptor**

This is a Specialist unit. It covers the skills and knowledge required to carry out general planing and shaping operations. It achieves part of the outcomes of MEM 7.5AA Perform general machining. 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

<b>Element</b>	<b>Performance criteria</b>
1. Prepare for planing and shaping operations	<ul style="list-style-type: none"><li>1.1 Machining requirements are identified</li><li>1.2 Materials to be planed and/or shaped are collected</li><li>1.3 Planing and shaping equipment is set up for operation</li><li>1.4 Pre-operational equipment checks are conducted</li><li>1.5 Health and safety hazards / maintenance requirements are identified and reported to appropriate personnel according to workplace reporting procedures</li></ul>
2. Operate planing and shaping equipment to achieve specifications	<ul style="list-style-type: none"><li>2.1 Machining parameters are set to meet job requirements</li><li>2.2 Materials are accurately positioned for planing and shaping operation</li><li>2.3 Planing and shaping equipment is started, operated and shut down according to operating procedures and manufacturer's specification</li><li>2.4 Work is checked against specification</li><li>2.5 Non-conforming components are identified and corrected as required</li><li>2.6 Basic routine maintenance is carried out as required</li><li>2.7 The workplace meets housekeeping standards</li></ul>

## 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 planing and shaping requirements. This may require interpretation of technical drawings or sketches
2. Select, fit and use personal protective clothing and/or equipment
3. Confirm status of equipment, that safety guards are in place, equipment is fit for operation and required services are available
4. Collect and position materials according to job and equipment requirements
5. Set up, operate and shut down equipment according to workplace procedures to meet job specification
6. Monitor and adjust process and equipment during operation to stay within specification
7. Confirm that components meet specification. This may involve the use of measuring instruments
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. Relevant site operating procedures and practices
11. Purpose and basic operating principles of planing and shaping equipment and accessories. This includes awareness of equipment operating capacities
12. Care, maintenance and storage of tool parts and accessories
13. Scope to adjust machining parameters and related effect on outcome
14. The impact of machining parameters and materials used on tool life
15. Safe work procedures including awareness of health and safety hazards related to the operation of the planing and shaping equipment
16. Housekeeping standards for the work area

*May include knowledge of:*

17. Basic operating principles of process control where relevant. This includes the relationship between control panels and the physical equipment

### Relationship with other standards

#### *Pre-requisite units*

The pre-requisites for this competency standard are:

- BCG1004A Carry out measurements 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. This may include:

- SUGZPCI2A Operate a process control interface

### Resources required for assessment

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

- Planing and shaping equipment

- Relevant measuring instrumentation
- Materials for planing and/or shaping
- Drawings, templates 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.
- Work is undertaken to predetermined specifications
- Planes and shapers are not CNC (Computer Numerical Control) machines
- Typical operations include slotting, planing and cutting flats
- Machining parameters are typically given and include speeds, feeds, stops, coolant and cutting lubricants
- Measuring instrumentation may include dividers, callipers, verniers, micrometers and rulers
- Pre-operational checks may include confirming that safety guards are in place, equipment is operational and other pre-start checks as required by workplace procedure
- Basic routine maintenance includes cleaning and lubrication
- Work may require the ability to work within a team environment
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## **Unit Sector(s)**

Not applicable.