



Australian Government

Department of Education, Employment and Workplace Relations

FDFSUG229A Perform general planing and shaping operations

Release: 1

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Modification History

New Unit based on *SUGSPPS2A Perform general planing and shaping operations*.

Unit Descriptor

This unit describes the outcomes required to carry out general planing and shaping operations. A person who has achieved competence in *MEM07005B Perform general machining* or equivalent is recognised as competent in this sugar milling unit.

Application of the Unit

This unit has application in the sugar milling industry.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

There are no pre-requisites units for this competency standard.

Employability Skills Information

This unit contains employability skills.

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.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Prepare for planing and shaping operations	<ul style="list-style-type: none">1.1 Machining requirements are identified1.2 Materials to be planed and/or shaped are collected1.3 Planing and shaping equipment is set up for operation1.4 Pre-operational equipment checks are conducted1.5 Health and safety hazards / maintenance requirements are identified and reported to appropriate personnel according to workplace reporting procedures
2 Operate planing and shaping equipment to achieve specifications	<ul style="list-style-type: none">2.1 Machining parameters are set to meet job requirements2.2 Materials are accurately positioned for planing and shaping operation2.3 Planing and shaping equipment is started, operated and shut down according to operating procedures and manufacturer's specification2.4 Work is checked against specification2.5 Non-conforming components are identified and corrected as required2.6 Basic routine maintenance is carried out as required2.7 The workplace meets housekeeping standards

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills include:

Ability to:

- identify planing and shaping requirements - this may require interpretation of technical drawings or sketches
- select, fit and use personal protective clothing and/or equipment
- confirm status of equipment, that safety guards are in place, equipment is fit for operation and required services are available
- collect and position materials according to job and equipment requirements
- set up, operate and shut down equipment according to workplace procedures to meet job specification
- monitor and adjust process and equipment during operation to stay within specification
- confirm that components meet specification - this may involve the use of measuring instruments
- maintain work area to meet housekeeping standards

Required knowledge includes:

Knowledge of:

- relevant state OHS legislation, standards and codes of practice relating to work responsibilities
- relevant site operating procedures and practices
- purpose and basic operating principles of planing and shaping equipment and accessories - this includes awareness of equipment operating capacities
- care, maintenance and storage of tool parts and accessories
- scope to adjust machining parameters and related effect on outcome
- the impact of machining parameters and materials used on tool life
- safe work procedures including awareness of health and safety hazards related to the operation of the planing and shaping equipment
- housekeeping standards for the work area

Evidence Guide

<p>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.</p>	
<p>Overview of assessment</p>	<p>Assessment must be carried out in a manner that recognises the cultural and literacy requirements of the assessee and is appropriate to the work performed.</p>
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>Evidence of ability to:</p> <ul style="list-style-type: none"> • identify planing and shaping requirements • select, fit and use personal protective clothing and/or equipment • confirm status of equipment • collect and position materials according to job and equipment requirements • set up, operate and shut down equipment • monitor and adjust process and equipment during operation • confirm that components meet specification
<p>Context of and specific resources for assessment</p>	<p>Assessment must occur in a real or simulated workplace where the assessee has access to:</p> <ul style="list-style-type: none"> • 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
<p>Method of assessment</p>	<p>Other units of competency relevant to the work role should be assessed in conjunction with this unit.</p>
<p>Guidance information for assessment</p>	<p>To ensure consistency in one's performance, competency should be demonstrated on more than one occasion over a period of time in order to cover a variety of circumstances, cases and responsibilities, and where possible, over a number of assessment activities.</p>

Range Statement

<p>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.</p>	
Policies and procedures	Work is carried out in accordance with company policies and procedures, licensing requirements, manufacturer's recommendations, legislative requirements, codes of practice and industrial awards and agreements.
Codes of practice	Codes of practice include the Sugar Milling Operations Industry Code of Practice.
Planing and shaping operations	<p>Work is undertaken to predetermined specifications</p> <p>Planes and shapers are not CNC (Computer Numerical Control) machines.</p> <p>Typical operations include slotting, planing and cutting flats.</p>
Machining parameters	Machining parameters are typically given and include speeds, feeds, stops, coolant and cutting lubricants
Measuring instrumentation	<p>Measuring instrumentation may include</p> <ul style="list-style-type: none"> • callipers • dividers • verniers • micrometers • rulers.
Pre-operational checks	<p>Pre-operational checks may include</p> <ul style="list-style-type: none"> • confirming that safety guards are in place • equipment is operational • other pre-start checks as required by workplace procedure.
Routine maintenance	Basic routine maintenance includes cleaning and lubrication.
Teamwork	Work may require the ability to work within a team environment.

Unit Sector(s)

Sugar Milling