

Australian Government

Department of Education, Employment and Workplace Relations

FDFSUG228A Perform general milling operations

Release: 1



FDFSUG228A Perform general milling operations

Modification History

New Unit based on SUGSPGM2A Perform general milling operations.

Unit Descriptor

This unit describes the outcomes required to carry out general milling 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-requisite 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 milling	1.1 Milling requirements are identified	
	operations	1.2 Materials are collected	
		1.3 Milling equipment is set up for operation	
		1.4 Pre-operational equipment checks are conducted	
		1.5 Health and safety hazards / maintenance requirements are identified and reported to appropriate personnel according to workplace reporting procedures	
2	Operate milling equipment to achieve specifications	2.1 Machining parameters are set to meet job requirements	
		2.2 Materials are accurately positioned for milling opertation	
		2.3 Milling equipment is started, operated and shut down according to operating procedures and manufacturer's specification	
		2.4 Work is checked against specification	
		2.5 Non-conforming components are identified and corrected as required	
		2.6 Basic routine maintenance is carried out as required	
		2.7 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 milling 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 milling equipment and accessories including 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 mill and related equipment
- housekeeping standards for the work area

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	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.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	 Evidence of ability to: identify milling requirements collect and position materials according to job and equipment requirements safely set up, operate and shut down equipment monitor and adjust process and equipment during operation to stay within specification confirm that components meet specification
Context of and specific resources for assessment	 Assessment must occur in a real or simulated workplace where the assessee has access to: Mill and equipment Relevant measuring instrumentation Materials to be milled Drawings, templates and specifications as required Operating procedures and related advice on equipment/instrumentation operation Personal protective clothing and equipment Housekeeping standards and procedures
Method of assessment	Other units of competency relevant to the work role should be assessed in conjunction with this unit.
Guidance information for assessment	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.

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.

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.
Milling operations	This unit does not cover set up of dividing heads. Work is undertaken to pre-determined specifications. Mills are not CNC (Computer Numerical Control). Typical operations include slotting and cutting flats.
Machining parameters	 Machining parameters are typically given and include speeds feeds stops coolant cutting lubricants.
Measuring instrumentation	 Measuring instrumentation may include callipers dividers verniers and micrometers rulers.
Pre-operational checks	 Pre-operational checks may include confirming that safety guards are in place equipment is operational other pre-start checks as required by workplace procedure.
Basic 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