



Australian Government

Department of Education, Employment and Workplace Relations

FDFSUG103A Move cane bins in a marshalling yard

Release: 1

FDFSUG103A Move cane bins in a marshalling yard

Modification History

New Unit based on *SUGTCYM1A Control yard movements*.

Unit Descriptor

This unit describes the outcomes required to move cane bins in mill storage and marshalling yards to ensure efficient cane supply operations. Empty and full yards may be a combined yard.

Application of the Unit

This unit has application in the cane bins marshalling yards of a sugar mill.

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 work in a cane bin marshalling yard	1.1 Personal protective clothing and equipment is selected and used 1.2 Health and safety hazards / maintenance requirements are identified and reported to appropriate personnel according to workplace reporting procedures
2 Move full cane bins	2.1 Continuity of cane supply to mill is managed to meet cut to crush sequence 2.2 Cane bins are connected to the weighbridge system in accordance with workplace procedures 2.3 Yard control systems are operated to potential 2.4 Bins are un-coupled in accordance with OHS requirements and workplace procedures
3 Move empty cane bins	3.1 Bin supply to empty yard is managed to meet traffic schedule requirements 3.2 Bins are re-coupled/pinned in accordance with OHS requirements and workplace procedures 3.3 Yard control systems are operated to potential
4. Analyse and respond to unacceptable performance	4.1 System operating conditions are monitored to identify causes of unacceptable performance 4.2 Yard derailments are reported and rectified in accordance with workplace procedures 4.3 Bins requiring repair are identified and removed to bin repair line 4.4 System error messages are responded to and appropriate corrective action is taken

Required Skills and Knowledge

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

Required skills include:

Ability to:

- select, fit and use personal protective clothing and/or equipment
- confirm yard control status at start up
- monitor yard capacity to direct cane bins to appropriate yard location
- operate systems (either automated or manual) to locate bins in required location
- monitor supply of full bins to the weighbridge system to meet cut-to-crush sequence
- connect rake to weighbridge system
- couple and uncouple cane bins safely to meet required length
- receive and report derailments
- divert damaged bins for repair
- monitor marshalling yard including checking:
 - that bins are recoupled to meet requirements of traffic schedule
 - that bin identifiers match the actual bins
 - the position of locos in the yard
- liaise with loco and equipment drivers
- use communication systems including use of a 2-way radio and hand and audible signalling
- complete yard control records and prepare for changeover
- take corrective action in response to abnormal equipment and/or system performance, including derailments

Required knowledge includes:

Knowledge of:

- relevant state OHS legislation, standards and industry codes of practice relating to work responsibilities
- safe work procedures including awareness of health and safety hazards related to yard control and associated control measures
- workplace documentation including consignment notes and trip/cut-to-crush documentation
- functions and basic operating principles of equipment and systems used
- function and location of signalling devices used to monitor cane bin movements in the yard
- cane yard system layout and line holding capacities
- implications of sub-optimal cut to crush times for mill performance and of disrupted supply
- operating requirements and controls
- communication system protocols
- procedures for responding to emergency situations
- reporting and recording systems

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: • monitor yard capacity to direct cane bins to appropriate yard location • sequence supply of full bins to the weighbridge system to meet cut-to-crush sequence • couple and uncouple cane bins safely to meet required length • liaise with loco and equipment drivers • use communication systems.
Context of and specific resources for assessment	• Assessment must occur in a real or simulated workplace where the assessee has access to: • Cane yards and related signalling and control systems • Cane locos (does not include operation) • Relevant codes of practice and industry standards • Bin consignment and trip/cut-to-crush documentation • Operating procedures and related advice on equipment operation • Loaded and empty bins • Personal protective clothing and equipment • Communication systems and equipment • Housekeeping standards and procedures • Workplace information recording systems, requirements and procedures.
Method of assessment	This unit should be assessed together with core units and other units of competency relevant to the function or work role.
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. Other units of competency relevant to the work role should be assessed in conjunction with this unit.

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, 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 and sugar industry codes of practice related to cane railway and transport operations.
Workplace information	Workplace information can include: • Standard Operating Procedures (SOPs) and • traffic schedules • manufacturer's specifications.
Information systems	Information systems may be print or screen based.
Equipment	Equipment may include: • 2-way communication system • mimic or computer board • process control interface and • related control system.
Signalling devices	Signalling devices typically include: • colour aspect lights • mechanical signage.
Rakes	Movement of rakes may be: • automated • done using a dedicated loco, tractors or • using winch equipment.
Teamwork	Work may require the ability to work within a team environment
Communication methods	Communication methods include: • use of two-way radios used in accordance with workplace requirements and state authority protocols and

	• hand and audible signalling.
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Unit Sector(s)

Sugar Milling.