



Australian Government

Department of Education, Employment and Workplace Relations

SUGTCYM1A Control yard movements

Revision Number: 1

SUGTCYM1A Control yard movements

Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to control cane movements in mill storage and marshalling yards to ensure efficient cane supply operations and removal of empty bins.

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. Control full yard cane movements	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 1.3 Continuity of cane supply to mill is managed to meet cut to crush sequence 1.4 Cane bins are connected to the weighbridge system in accordance with workplace procedures 1.5 Yard control systems are operated to potential 1.6 Bins are un-coupled in accordance with OHS requirements and workplace procedures
2. Control empty yard bin movements	2.1 Bin supply to empty yard is managed to meet traffic schedule requirements 2.2 Bins are re-coupled/pinned in accordance with OHS requirements and workplace procedures 2.3 Yard control systems are operated to potential
3. Analyse and respond to unacceptable performance	3.1 System operating conditions are monitored to identify causes of unacceptable performance 3.2 Yard derailments are reported and rectified in accordance with workplace procedures 3.3 Bins requiring repair are identified and removed to bin repair line 3.4 System error messages are responded to and appropriate corrective action is taken
4. Prepare for shift changeover	4.1 Workplace information is recorded according to workplace recording requirements 4.2 Shift changeover is carried out according to workplace procedure 4.3 Incoming yard control operators are aware of yard and related equipment status

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. Confirm yard control status at start up
2. Select, fit and use personal protective clothing and/or equipment
3. Monitor yard capacity to direct cane bins to appropriate yard location
4. Operate systems (either automated or manual) to locate bins in required location. This may include operation of a control interface
5. Sequence supply of full bins to the weighbridge system to meet cut-to-crush sequence
6. Connect rake to weighbridge system
7. Coupling and uncouple cane bins safely and meet traffic schedule requirements (required length)
8. Receive and report derailments
9. Divert damaged bins for repair
10. Monitor yard. This may require manual monitoring and/or use of a control interface and typically includes monitoring:
 - bins are recoupled to meet requirements of traffic schedule
 - bin identifiers match the actual bins
 - position of locos in the yard
11. Liaise with loco and equipment drivers
12. Use communication systems. This typically includes use of a 2-way radio and hand and audible signalling
13. Complete yard control records and prepare for changeover
14. Take corrective action in response to abnormal equipment and/or system performance, including derailments

May include the ability to:

15. Operate a tipping process
16. Conduct rail weighbridge operations

Knowledge of:

17. Relevant state OHS legislation, standards and industry codes of practice relating to work responsibilities
18. Safe work procedures including awareness of health and safety hazards related to yard control and associated control measures
19. Workplace documentation including consignment notes and trip/cut-to-crush documentation
20. Functions and basic operating principles of equipment and systems used
21. Function and location of signalling devices used to monitor cane bin movements in the yard
22. Cane yard system layout and line holding capacities
23. Implications of sub-optimal cut to crush times for mill performance and of disrupted supply
24. Operating requirements and controls
25. Communication system protocols
26. Procedures for responding to emergency situations

27. Reporting and recording systems

May include knowledge of:

28. Tipping process operation

29. Weighbridge operations

Relationship with other standards

Pre-requisite units

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

Co-assessment of related units

Where the yard controller conducts tipping process operation and/or weighbridge operations, the related units *Conduct rail weighbridge operations* and *Operate a tipping process* are to be co-assessed with this unit. Other units of competency relevant to the work role should be assessed in conjunction with this unit.

Resources required for assessment

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

- Cane yards and related signaling 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

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, licensing requirements, legislative requirements, codes of practice and industrial awards and agreements. 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 can include standard operating procedures (SOPs), traffic schedules, and manufacturer's specifications
- Information systems may be print or screen based
- Equipment may include 2-way communication system, mimic or computer board, process control interface and related control system

- Signaling devices typically include colour aspect lights, mechanical signage
- Movement of rakes may be automated, done using a dedicated loco, tractors or using winch equipment
- Empty and full yards may be a combined yard
- Work may require the ability to work within a team environment
- 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)

Not applicable.