



Australian Government

Department of Education, Employment and Workplace Relations

SUGTOTE2A Operate tamping equipment

Revision Number: 1

SUGTOTE2A Operate tamping equipment

Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to operate tamping equipment used to lift and pack track. It can apply to both construction of new track and repair of existing track.

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. Plan and prepare work	1.1 The location and scope of work are identified 1.2 Materials required to complete the work are confirmed and available 1.3 Equipment status is confirmed and pre-operational checks are carried out 1.4 Personal protective equipment is selected, correctly fitted and used 1.5 Safety procedures are followed to confirm that work is clearly signed and relevant authorities are advised that work is in progress 1.6 Site is inspected prior to commencing work to identify and remove potential hazards
2. Operate tamping equipment	2.1 Ballast hopper is operated to supply an even flow of ballast to the specified thickness 2.2 Tamper equipment is operated to lift, line track and pack ballast to specification 2.3 Track is dressed by final ballast spread and trimmed to meet the specified profile 2.4 Track is inspected to confirm that design and construction specifications are met
3. Analyse and respond to abnormal performance	3.1 Operating data and plant operating conditions are analysed to identify causes of abnormal performance 3.2 Hazards are identified and reported as required according to workplace reporting procedure 3.3 Corrective action is taken in accordance with workplace in response to Hazards and abnormal or unacceptable equipment performance 3.4 Emergency procedures are implemented as required according to workplace procedures and manufacturer's recommendations
4. Complete work	4.1 The construction area is cleared of debris 4.2 Unused materials are stored as required 4.3 Equipment is shut down and parked according to workplace requirements 4.4 Tools, plant and equipment is cleaned and stored as required 4.5 Workplace information is recorded according to workplace recording requirements

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. Interpret workplace information such as drawings and related instructions to identify the project requirements
2. Estimate material requirements for a given project
3. Assess operational status of tamper and carry out pre-operational checks
4. Operate tamper to apply and compact ballast and lift and align track to meet design and construction specifications
5. Monitor track laying. This includes confirming that the following meet construction specifications:
 - Spread and depth of ballast
 - Compaction
 - Track line
 - Final dressing application and trim
6. Identify faults in operation of equipment
7. Take corrective action in response to abnormal or unacceptable performance
8. Use appropriate communication methods and equipment
9. Report and/or record corrective action as required
10. Maintain work area to meet housekeeping standards

Knowledge of:

11. Relevant state OHS legislation, standards and codes of practice relating to work responsibilities
12. Understanding of the steps involved in constructing/repairing track
13. Functions and basic operating principles of tamper equipment. This includes the layout and purpose of major air, hydraulic, mechanical and electrical systems as relevant to equipment. It also includes an understanding of operational checks and operating capacity of equipment
14. Track construction specifications
15. The impact of tamper operation on related track laying operations
16. Factors that can affect the tamper operation
17. Common problems related to tamping and corrective action required
18. Traffic control signage, communication and procedures
19. Safe work procedures including awareness of health and safety hazards related to track laying and associated control measures. This includes safe manual handling procedures
20. Purpose and limitations of protective clothing and equipment
21. Environmental issues and controls
22. Requirements to liaise/advise related work areas
23. Housekeeping standards for the work area
24. Reporting and recording systems

Relationship with other standards

Pre-requisite units

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

Co-assessment of related units

A tamper operator may also require competence in:

- Operate on-track self-propelled equipment
- Operate a process control interface (where tamper is computer controlled)

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:

- Site and related project information
- Relevant codes of practice and industry standards
- Tamper and related equipment
- Materials handling equipment and relevant hand and power tools
- Operating procedures and related advice on equipment operation
- Ballast
- Track work
- 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 drawings, plans and Standard Operating Procedures (SOPs)
- Cane railway network features and their characteristics may include main and branch lines, yards, sidings, loops, dump points and pads; and road transport delivery points where relevant
- Information systems may be print or screen based
- Equipment may include tamper and related attachments
- Confirming equipment status involves conducting relevant pre-start checks, confirming that all safety guards and equipment is ready and safe to operate
- Work may require the ability to work within a team environment
- Communication methods may include use of two-way radios
-

Unit Sector(s)

Not applicable.