



Australian Government

Department of Education, Employment and Workplace Relations

SUGSLRT2A Lay rails

Revision Number: 1

SUGSLRT2A Lay rails

Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to lay rails. 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	<ul style="list-style-type: none">1.1 The location and scope of work are identified1.2 Materials required to complete the work are confirmed and available1.3 Equipment status is confirmed and pre-operational checks are carried out1.4 Personal protective equipment is selected, correctly fitted and used1.5 Safety procedures are followed to confirm that work is clearly signed and relevant authorities are advised that work is in progress1.6 Site is inspected prior to commencing work to identify and remove potential hazards
2. Lay rails	<ul style="list-style-type: none">2.1 Rail lengths are positioned and fixed to meet construction specifications
3. Complete work	<ul style="list-style-type: none">3.1 Unused materials are stored as required3.2 Tools, plant and equipment is cleaned and stored as required3.3 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 equipment and carry out pre-operational checks
4. Confirm that rail lengths meet design and construction specifications
5. Position rails to meet specification. This includes positioning and fixing base plates where used and positioning and fixing rail lengths
6. Monitor track laying. This includes confirming that the following meet construction specifications:
 - Alignment of the first rail
 - Joints between rail lengths
 - Spike holes are bored to required pattern
 - Clips/dog spikes are fitted and fixed to secure rail to each sleeper
 - Rail anchors are positioned firmly against sleepers to prevent slippage
 - Second rail is positioned to the correct gauge prior to fixing
 - Rails are fixed in position
 - Circuit plans are maintained in jointing processes to switching/signalling requirements
7. Identify faulty operation of equipment
8. Identify unacceptable work outcomes
9. Take corrective action in response to abnormal or unacceptable performance
10. Use appropriate communication methods and equipment
11. Report and/or record corrective action as required
12. Maintain work area to meet housekeeping standards

May include ability to:

13. Operate track handling equipment such as front end loaders

Knowledge of:

14. Relevant state OHS legislation, standards and codes of practice relating to work responsibilities
15. Site operating procedures and practices
16. Understanding of the steps involved in laying/repairing track
17. Functions and basic operating principles of track laying equipment
18. The impact of the positioning and alignment of rails on related track laying operations
19. The quality requirements of rails
20. Common problems related to laying rails and corrective action required
21. Traffic control signage, communication and procedures
22. Safe work procedures including awareness of health and safety hazards related to track laying and associated control measures. This includes safe manual handling procedures
23. Purpose and limitations of protective clothing and equipment
24. Requirements to liaise/advise related work areas
25. Housekeeping standards for the work area
26. Reporting and recording systems

May include knowledge of:

27. Operating procedures for materials handling equipment

Relationship with other standards

Pre-requisite units

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

Co-assessment of related units

Other units of competency relevant to the work role should be assessed in conjunction with this unit. This may include:

- SUGSLSP2A Lay sleepers
- BCC3005A Conduct front end loader operations

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
- Materials handling equipment and relevant hand and power tools
- Operating procedures and related advice on equipment operation
- Rails - pre-welded to meet track design and construction specifications and related materials
- 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 and plans, Standard Operating Procedures (SOPs) and manufacturer's specifications
- 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 and materials may include hand tools, pneumatic tools, base plates, fish plates, clips, dog spikes, anchors, screws, insulating biscuits and camber plates
- Track has been pre-welded to meet track design and construction specifications
- Work may require the ability to work within a team environment
- Communication methods may include use of two-way radios
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Unit Sector(s)

Not applicable.