



Australian Government

Department of Education, Employment and Workplace Relations

FDFSUG202A Lay rails for cane rail systems

Release: 1

FDFSUG202A Lay rails for cane rail systems

Modification History

New Unit based on *SUGSLRT2A Lay rails*.

Unit Descriptor

This unit describes the outcomes required to lay rails. It can apply to both construction of new track and repair of existing track. Track has been pre-welded to meet track design and construction specifications.

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 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 Lay rails	2.1 Rail lengths are positioned and fixed to meet construction specifications
3 Complete work	3.1 Unused materials are stored as required 3.2 Tools, plant and equipment is cleaned and stored as required 3.3 Workplace information is recorded according to workplace recording requirements

Required Skills and Knowledge

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

Required skills include:

Ability to:

- interpret workplace information such as drawings and related instructions to identify the project requirements
- estimate material requirements for a given project
- assess operational status of equipment and carry out pre-operational checks
- confirm that rail lengths meet design and construction specifications
- position rails to meet specification including positioning and fixing base plates where used and positioning and fixing rail lengths
- monitor track laying including 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
- identify faulty operation of equipment
- identify unacceptable work outcomes
- take corrective action in response to abnormal or unacceptable performance
- use appropriate communication methods and equipment
- report and/or record corrective action as required
- 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
- site operating procedures and practices
- understanding of the steps involved in laying/repairing track
- functions and basic operating principles of track laying equipment
- the impact of the positioning and alignment of rails on related track laying operations
- the quality requirements of rails
- common problems related to laying rails and corrective action required
- traffic control signage, communication and procedures
- safe work procedures including awareness of health and safety hazards related to track laying

and associated control measures including safe manual handling procedures

- purpose and limitations of protective clothing and equipment
- requirements to liaise/advise related work areas
- housekeeping standards for the work area
- 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: • interpret workplace information • estimate material requirements for a given project • confirm that rail lengths meet design and construction specifications • position rails to meet specification • take corrective action in response to abnormal or unacceptable performance • use appropriate communication methods and equipment • report and/or record corrective action as required.
Context of and specific resources 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.
Method of assessment	Other units of competency relevant to the work role should be assessed in conjunction with this unit. This may include: • SUG219A Lay sleepers • AHCMOM207A Conduct front end loader operations.
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.
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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.
Cane transport network	Cane transport network features and their characteristics may include: • main and branch lines • yards • sidings • loops • dump points and pads.
Information systems	Information systems may be print or screen based
Equipment and materials	Equipment and materials may include: • hand tools • pneumatic tools • base plates • fish plates • clips • dog spikes • anchors • screws • insulating biscuits and • camber plates.
Teamwork	Work may require the ability to work within a team environment
Communication methods	Communication methods may include: • use of two-way radios.

Unit Sector(s)

Sugar Milling