



Australian Government

Department of Education, Employment and Workplace Relations

SUGSPPB1A Prepare pre-ballast

Revision Number: 1

SUGSPPB1A Prepare pre-ballast

Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to lay pre-ballast in preparation for laying railway 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 confirmed1.4 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. Set out base and run pre-ballast	<ul style="list-style-type: none">2.1 Base/foundation is set out from off-set pegs to centerline and width for ballast according to track design and specifications2.2 Pre-ballast is applied evenly to meet specified thickness2.3 Pre-ballast is compacted to meet specifications
3. Complete work	<ul style="list-style-type: none">3.1 The construction area is cleared of debris3.2 Unused materials are stored as required3.3 Tools, plant and equipment is cleaned and stored as required

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 pre-ballast laying equipment
4. Operate pre-ballast equipment to lay and compact materials to the required location and thickness
5. Identify faulty operation of equipment
6. Identify unacceptable work outcomes
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 pre-ballast laying equipment
14. The impact of the pre-ballast base on related track laying operations
15. The quality requirements of the foundation. This includes the materials used, thickness and compactness of foundation
16. Common problems related to laying pre-ballast and corrective action required
17. Traffic control signage, communication and procedures
18. Safe work procedures including awareness of health and safety hazards related to pre-ballast laying and associated control measures. This includes safe manual handling procedures
19. Purpose and limitations of protective clothing and equipment
20. Environmental issues and controls
21. Requirements to liaise/advise related work areas
22. Housekeeping standards for the work area
23. 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

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
- Spreader, roller and related equipment

- Materials handling equipment as required
- Operating procedures and related advice on equipment operation
- Base materials - typically gravel and stone
- 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 may include materials handling equipment such as loaders and jacks, spreader, roller and compacting equipment
- 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
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Unit Sector(s)

Not applicable.