



Australian Government

FBPSUG1001 Install pre-ballast

Release: 1

FBPSUG1001 Install pre-ballast

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to prepare for and lay pre-ballast.

The unit applies to individuals who work under supervision installing pre-ballast in preparation for laying railway track for a cane haulage system in the sugar industry.

All work must be carried out to comply with workplace procedures according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sugar milling (SUG)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare work	1.1 Identify the location and scope of work according to job specifications 1.2 Organise materials required to complete the work 1.3 Confirm equipment operational and safety status 1.4 Select, fit and use personal protective equipment according to workplace safety procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Confirm that work is clearly signed, and advise relevant authorities that work is in progress according to workplace safety procedures 1.6 Identify and remove potential hazards from site before starting work
2. Set out base and run pre-ballast	2.1 Set out base and foundation from off-set pegs to centre line and width for ballast according to track design and specifications 2.2 Apply pre-ballast evenly to meet specified thickness 2.3 Compact pre-ballast to meet specifications
3. Complete work	3.1 Clear the construction area of debris according to workplace procedures and safety requirements 3.2 Store unused materials according to workplace procedures, and safety requirements 3.3 Clean and store tools, plant and equipment according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret work requirements from workplace information
Writing	Record basic information in required format
Numeracy	Estimate quantities of material required
Navigate the world of work	Understand main tasks, responsibilities and boundaries of own role
Interact with others	Use required methods to communicate with others
Get the work done	- Complete tasks in required sequence - Apply decision-making processes to control hazards in routine situations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG1001 Install pre-ballast	FDFSUG101A Install pre-ballast	Updated to meet Standards for Training Packages Minor edits to reflect AQF alignment	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPSUG1001 Install pre-ballast

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has installed pre-ballast for at least one given project in line with workplace contexts, and demonstrated each of the following points at least once:

- organised required materials
- checked equipment operation
- correctly selected, fitted and used personal protective equipment (PPE)
- correctly used signage and communications equipment
- safely operated pre-ballast equipment to lay and compact materials to the required location, width and thickness
- performed site clean-up, and stored materials, tools and equipment.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- functions and basic operating principles of pre-ballast laying equipment
- common problems related to laying pre-ballast, and corrective action required
- the impact of the pre-ballast base on related track laying operations
- foundation specifications, including the materials used, thickness and compactness
- the steps involved in constructing/repairing track
- safe work procedures:
 - hazards and control measures related to laying pre-ballast
 - key health and safety requirements in the workplace
 - correct use of PPE
 - correct techniques for manual handling
- workplace cleaning standards for the work area
- requirements to liaise with and advise others in related work areas

- use of traffic control signage relevant to installing pre-ballast.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a cane railway system or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - spreader, roller and related equipment
 - materials handling equipment
 - base materials – typically gravel and stone
 - PPE
 - traffic control signage and communication equipment
 - workplace information recording system
- specifications:
 - site and related project information
 - relevant health and safety workplace documentation
 - operating procedures and related advice on equipment operation
 - workplace cleaning standards and procedures.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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