



Australian Government

FBPSUG2004 Operate tamping equipment

Release: 1

FBPSUG2004 Operate tamping equipment

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 operate tamping equipment used to lift and pack track in sugar cane haulage systems. It relates to construction of new track and repair of existing track that has been pre-welded to meet track design and construction specifications.

The unit applies to individuals who work under supervision in the sugar milling 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 specifications 1.2 Confirm and prepare materials required to complete the work to specifications 1.3 Carry out pre-operational checks, confirm operational status of equipment, and report any faults

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Select and fit personal protective equipment as required 1.5 Confirm that work is clearly signed according to safety procedures and that relevant authorities have been advised that work is in progress 1.6 Identify and remove potential hazards from construction area before commencing work
2. Operate tamping equipment	2.1 Operate ballast hopper to supply an even flow of ballast to the specified thickness 2.2 Operate tamper equipment to lift, line track and pack ballast to specification 2.3 Dress track by final ballast spread and trim to meet the specified profile 2.4 Check track to confirm that design and construction specifications are met
3. Analyse and respond to abnormal performance	3.1 Identify causes of abnormal performance from operating data and plant operating conditions 3.2 Identify and report hazards according to workplace safety requirements 3.3 Take corrective action to rectify abnormal performance according to workplace procedures 3.4 Implement emergency procedures according to workplace safety procedures
4. Complete work	4.1 Clear the construction area of debris according to workplace procedures 4.2 Store unused materials according to workplace procedures 4.3 Shut down and park equipment according to operating procedures 4.4 Clean and store tools, plant and equipment according to workplace procedures 4.5 Record workplace information according to workplace requirements

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
Numeracy	Estimate quantities of material requirements
Navigate the world of work	- Understand main tasks, responsibilities and boundaries of own role - Apply workplace procedures relevant to own role
Interact with others	Apply communication practices and protocols relevant to own role
Get the work done	- Complete tasks according to plan - Apply decision-making processes to control hazards and respond to abnormal situations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG2004 Operate tamping equipment	FDFSUG204A Operate tamping equipment	Updated to meet Standards for Training Packages	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 FBPSUG2004 Operate tamping equipment

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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 operated tamping equipment, in line with workplace contexts and demonstrated each of the following points at least once:

- checked operation of tamper equipment and identified and reported faults
- prepared materials for tamping operation
- applied safety procedures to prepare work area
- safely operated tamper to apply and compact ballast and lift and align track to specification
- correctly communicated workplace information to relevant authorities
- corrected abnormal or unacceptable tamping
- recorded track laying information
- cleared the work area and completed cleaning and storage tasks according to workplace requirements.

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:

- site operating procedures and practices for construction and repair of railway systems
- steps in constructing/repairing track
- functions and operating principles of tamper equipment, including the layout and purpose of major air, hydraulic, mechanical and electrical systems relevant to equipment
- required operational checks and operating capacity of equipment
- track construction specifications
- the impact of tamper operation on track laying operations
- factors that can affect the tamper operation
- common problems related to tamping and corrective action
- key health and safety requirements for railway system construction in the workplace:

- health and safety hazards and associated control measures
- manual handling procedures
- correct use of personal protective equipment (PPE)
- traffic control signage and communication procedures relevant to railway system construction
- workplace cleaning standards for the work area.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a cane rail system or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - materials handling equipment and relevant hand and power tools
 - tamping equipment and related equipment
 - ballast
 - trackwork
 - PPE
 - workplace information recording system
- specifications:
 - specifications, site and related project information
 - operating procedures and related advice on tamping equipment operation
 - workplace procedures for safe work practices.

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

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