



Australian Government

TLIW2028 Identify the principles of ballast cleaning operations

Release: 2

TLIW2028 Identify the principles of ballast cleaning operations

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor statement changes in Assessment Conditions.

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to identify the principles of ballast cleaning operations.

It includes determining components and work stations of ballast cleaning machines, identifying ballast cleaning functions, and identifying hazards and risks associated with ballast cleaning operations.

The unit provides an introduction to ballast cleaning and is not to be used for their operation, which must be covered by individual certification for the particular machine.

Operators of ballast cleaning machines must have undertaken training and hold the relevant licence, permit or certificate and be recognised as competent for each type of machinery being used.

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

- | | |
|---|---|
| 1 Determine components and work stations of ballast cleaning machines | 1.1 Ballast cleaning machine components and individual work stations are identified

1.2 Purpose of identified components and individual work stations is explained

1.3 Associated hazards of each component and appropriate control methods are identified |
| 2 Identify ballast cleaning functions | 2.1 Purposes of ballast cleaning are identified

2.2 Method is identified by which the machine completes ballast cleaning operations in accordance with network owner's standards |
| 3 Identify hazards and risks associated with ballast cleaning operations | 3.1 Environmental hazards are identified

3.2 Potential risks to the rail infrastructure are identified |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This unit replaces and is equivalent to TLIW2028A Identify the principles of ballast cleaning operations.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIW2028 Identify the principles of ballast cleaning operations

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- anticipating appropriate numeric functions for using a ballast cleaner
- anticipating problems, faults and malfunctions that may occur in accordance with organisational procedures
- applying relevant workplace procedures
- identifying job hazards and required action to minimise, control or eliminate identified hazards
- working systematically with required attention to detail without injury to self or others, or damage to equipment in accordance with organisational procedures.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- ballast profile rail network standards
- functions of ballast
- hazards that may exist when cleaning ballast and ways of controlling the risks involved
- problems that may occur when cleaning ballast and action that can be taken to resolve and report them
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- workplace procedures for using a ballast cleaning machine.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate rail corridor workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation including workplace procedures, regulations, rail network standards, codes of practice and operation manuals.

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