



Australian Government

TLIS2030 Carry out track ballasting

Release: 2

TLIS2030 Carry out track ballasting

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 carry out track ballasting manually and mechanically in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes determining the job requirements, carrying out the ballast activity in accordance with work orders, and completing all required documentation.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Work is performed under some supervision, generally within a team environment. It involves the application of routine operational principles and procedures when carrying out track ballasting, as part of workplace activities across a variety of operational contexts within the Australian rail system.

Operators of mechanised equipment must have undertaken training and, where appropriate, hold the relevant licence, permit or certificate and be recognised as competent for the class of machinery being used.

Pre-requisite Unit

Not applicable.

Competency Field

S – Construction and Installation

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Determine job requirements

2 Undertake ballast activity

3 Complete documentation

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Worksite is identified

1.2 Hazards are identified, risks are assessed and control measures are implemented

1.3 Work method is selected to meet job requirements

1.4 Resources are identified to meet the scope of the job and work methods selected

2.1 Ballast is removed from track using appropriate methods and equipment, in accordance with workplace procedures

2.2 Ballast profile is established through repair of existing ballast and/or distribution of new ballast using appropriate methods and equipment, in accordance with workplace procedures

2.3 Work is completed to meet ballast profile requirements to ensure safe operation of trains in accordance with workplace procedures

3.1 Required documentation procedures and processes are confirmed

3.2 Documentation is filled in legibly and proofread

3.3 Documentation is processed in accordance with workplace requirements

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.

Non-essential conditions can be found in the TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIS2030A Carry out track ballasting.

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 TLIS2030 Carry out track ballasting

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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:

- applying relevant workplace procedures
- distributing new ballast by manual and/or mechanical methods
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- interpreting and following operational instructions including the correct work sequences
- modifying activities depending on operational contingencies, risk situations and environments
- performing work activities in terms of planned schedule
- reading and interpreting relevant instructions and manuals
- removing and distributing existing ballast by manual and/or mechanical methods
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with workplace procedures
- selecting and using relevant equipment and tools
- working systematically with required attention to detail without injury to self or others, or damage to equipment.

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 standards including ballast depth, resistance, shoulder, shoulder height and shoulder width
- functions of ballast
- hazards that may exist when carrying out of track ballasting and ways of controlling the risks involved
- materials and methods involved in restoring ballast profiles

- problems that may occur when carrying out track ballasting and action that can be taken to report or resolve these problems
- relevant rail danger zones
- relevant rail industry standard for carrying out track ballasting
- relevant recording and documentation procedures
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- workplace procedures for carrying out track ballasting.

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 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 industry standards, codes of practice and operation manuals.

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