



Australian Government

TLIS2028 Install and replace transoms

Release: 2

TLIS2028 Install and replace transoms

Modification History

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

- Minor PC 2.4 and PC 2.5 wording changes
- 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 install and replace transoms on underbridges in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes preparing for work, installing/replacing transoms and completing 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 minimal supervision, generally within a team environment.

It involves the application of routine operational principles and procedures when installing or replacing transoms, as part of workplace activities across a variety of operational contexts within the Australian rail system.

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

Pre-requisite Unit

Not applicable.

Competency Field

S – Construction and Installation

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare for work

- 1.1** Worksite is identified
- 1.2** Hazards are identified, risks are assessed and control measures are implemented
- 1.3** Installation, replacement or repair method is selected to meet work requirements in accordance with workplace procedures
- 1.4** Plant, equipment and other materials are prepared for work
- 1.5** Transoms are prepared in accordance with job requirements using correct methods, including dressing and protective coatings

2 Install or replace transoms

- 2.1** Unserviceable transoms are extracted, as required, using manual or mechanical methods in accordance with workplace procedures
- 2.2** New transom is installed using manual or mechanical methods in accordance with workplace standards and procedures
- 2.3** Transom is suitably supported by appropriate methods in accordance with workplace standards and procedures
- 2.4** Transom fixtures are replaced or tightened as required
- 2.5** Work is completed to meet track geometry requirements in accordance with rail industry standards and workplace procedures
- 2.6** Work is checked for compliance with acceptance standards for spacing, skew and geometry

3 Complete documentation

- 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 procedures

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 TLIS2028A Install and replace transoms.

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 TLIS2028 Install and replace transoms

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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
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- identifying, selecting and using relevant tools and equipment
- implementing prepared contingency plans
- installing and replacing transoms on underbridges
- interpreting and following operational instructions and following scheduled work processes
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with operating procedures
- preparing for work by selecting appropriate methods, materials and equipment for a variety of situations
- reading and interpreting relevant instructions, procedures, route information and signs
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with workplace procedures
- working systematically with required attention to detail without injury to self or others, or damage to goods or 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:

- contents of relevant workplace technical manuals and instructions
- emergency management plan

- hazards that may exist when installing and replacing transoms, and ways of controlling the risks involved
- problems that may occur when installing and replacing transoms, and action that can be taken to report or resolve these problems
- track structure and geometry requirements
- transom condition and placement acceptance rail industry standards
- types of tools and equipment that may be used when installing and replacing railway transoms, and their applications
- work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- workplace procedures for installing and replacing transoms.

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 industry standards, codes of practice and operation manuals.

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