



Australian Government

TLIS2031 Install railway sleepers

Release: 2

TLIS2031 Install railway sleepers

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 install railway sleepers manually or mechanically in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes preparing for work, restoring track gauge, installing or replacing sleepers 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 some supervision, generally within a team environment. It involves the application of routine operational principles and procedures when installing railway sleepers, 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.

PERFORMANCE CRITERIA

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 worksite standards and procedures
- 1.4** Plant, equipment and materials are prepared for work

2 Restore track gauge

- 2.1** Equipment and tools appropriate to task are selected and checked for correct operation in accordance with manufacturer instructions and workplace procedures
- 2.2** Track gauge is restored, as required, using appropriate methods in accordance with worksite standards and procedures
- 2.3** Track gauge measurements are recorded in accordance with workplace procedures

3 Install or replace sleeper

- 3.1** Unserviceable sleepers are extracted, as required, using manual or mechanical methods in accordance with worksite procedures
- 3.2** New sleeper is installed using manual or mechanical methods in accordance with worksite procedures
- 3.3** Sleeper plates are installed on relevant sleeper types in accordance with worksite procedures
- 3.4** Sleeper is suitably packed or supported by appropriate methods in accordance with worksite procedures
- 3.5** Work is completed to meet track geometry requirements in accordance with worksite procedures
- 3.6** Work is checked for compliance with acceptance standards for spacing, skew and geometry

4 Complete documentation

- 4.1** Required documentation procedures and processes are confirmed

- 4.2 Documentation is filled in legibly and proofread
- 4.3 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.

Unit Mapping Information

This unit replaces and is equivalent to TLIS2031A Install railway sleepers.

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 TLIS2031 Install railway sleepers

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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
- completing relevant documentation
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- installing or replacing sleepers
- interpreting and following operational instructions and following scheduled work processes
- modifying activities depending on operational contingencies, risk situations and environments
- operating and adapting to differences in equipment in accordance with operating procedures
- preparing for installation of railway sleepers
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with workplace procedures
- restoring track gauge and geometry
- selecting and using relevant tools and equipment
- 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:

- contents of relevant workplace technical manuals and instructions
- defects that can occur in sleeping tools and equipment, and related actions that should be taken
- hazards that may exist when installing railway sleepers and ways of controlling the risks involved
- problems that may occur when installing railway sleepers and action that can be taken to report or resolve these problems

- relevant recording and documentation procedures
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- sleeper and bearer condition and placement rail industry standards
- sleeper and bearer specification and capacity
- track gauge measurements
- types of tools and equipment that may be used when installing railway sleepers, and their applications
- workplace procedures for installing railway sleepers and turnout bearers.

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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