



Australian Government

TLIS3026 Implement track maintenance and construction

Release: 2

TLIS3026 Implement track maintenance and construction

Modification History

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

- Minor words changed in Performance Evidence
- Minor words changed in Knowledge Evidence
- 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 implement track maintenance and construction activities in accordance with approved standards, safeworking and regulatory requirements, and workplace procedures.

It includes planning work, implementing construction or maintenance activities, dealing with maintenance and construction problems, and completing 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 generally in a team environment. It involves the application of routine operational principles and procedures when implementing track maintenance and/or construction, 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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Plan work

1.1 Scope of work is confirmed

1.2 Hazards are identified, risks assessed and control measures implemented

1.3 Operational constraints are identified

1.4 Information requirements are identified and accessed

1.5 Method of work is selected and general operating sequence is determined

1.6 Resources required for the work are arranged

2 Implement construction or maintenance activities

2.1 Competent personnel are allocated tasks in accordance with the work sequence

2.2 Tasks are assessed as being in accordance with the predetermined sequence and appropriate for the work

2.3 Work procedures are monitored and evaluated as being appropriate and in accordance with standards and procedures

2.4 Human and other resources are assessed as being adequate for the work

3 Deal with maintenance and construction problems

3.1 Causes and effects of system faults and failures within the worksite are diagnosed

3.2 Impact of work on track system integrity is assessed

3.3 Appropriate action is taken to ensure track system integrity

3.4 Scope of work is modified to include related tasks and/or interfaces

3.5 Related faults and/or failures beyond the authorised scope of work are reported

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 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.

Unit Mapping Information

This unit replaces and is equivalent to TLIS3026B Implement track maintenance and construction.

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 TLIS3026 Implement track maintenance and construction

Modification History

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

- Minor words changed in Performance Evidence
- Minor words changed in Knowledge Evidence
- 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.

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 during at least four instances and include:

- applying relevant system of safeworking and workplace procedures
- assessing impact of work on track system integrity
- diagnosing faults and failures resulting from work activities
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- maintaining track geometry
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring, sequencing and implementing work activities in terms of planned schedule and appropriateness, in accordance with rail industry standards and workplace procedures
- operating and adapting to differences in equipment in accordance with operating procedures
- reading and interpreting relevant technical data, drawings, instructions and manuals
- reporting and rectifying within limits of own role, problems, faults and malfunctions, in accordance with workplace procedures
- selecting appropriate equipment in accordance with workplace procedures
- selecting appropriate work techniques
- supervising designated maintenance activities such as track construction, track maintenance or track surfacing
- 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:

- competency requirements to carry out track maintenance and/or construction in accordance with regulatory requirements
- documentation and record keeping workplace requirements
- fundamentals of rail infrastructure requirements to carry out track maintenance and/or construction
- hazards that may exist when maintaining and/or constructing track and ways of controlling the risks involved
- problems that may occur when maintaining and/or constructing track and actions that can be taken to report or resolve these problems
- relevant communications systems and procedures
- relevant rail danger zones
- relevant rail network standards, specifications and codes of practice
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- track defects and required actions to ensure track system integrity
- track infrastructure and the interaction of all interfaces
- track maintenance and/or construction techniques and work methods.

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.

Practical assessment must occur in an appropriate range of situations in the rail corridor workplace.

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.

Links

Companion Volume Implementation Guides are found in VETNet -

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