



Australian Government

TLIS2027 Install and maintain surface track drainage

Release: 1

TLIS2027 Install and maintain surface track drainage

Modification History

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/or maintain surface track drainage manually and mechanically in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes determining the job requirements, carrying out the maintenance of track drainage 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 installing and maintaining surface track drainage maintenance, 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.

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

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1 Determine job requirements

- 1.1 Worksite is identified
- 1.2 Hazards are identified, risks are assessed and control measures are implemented
- 1.3 Underground services are identified as required and marked to protect services from excavation
- 1.4 Work method and resources are selected to meet job requirements

2 Undertake track drainage work

- 2.1 Environmental protection requirements are implemented as required
- 2.2 Drainage is cleaned to relevant standard by mechanical methods in accordance with workplace standards
- 2.3 Drainage is cleaned, repaired or installed to relevant standard by manual methods in accordance with workplace standards
- 2.4 Work is completed to meet drainage requirements

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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIS2027A Install and maintain surface track drainage.

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 TLIS2027 Install and maintain surface track drainage

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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
- cleaning, repairing or installing drainage to relevant rail industry standard by manual and mechanical methods in accordance with workplace procedures
- following operational instructions and work sequences
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- reading and interpreting relevant plans
- 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:

- causes of defects such as erosion and water scouring
- drainage requirements of various types of earthworks
- environmental protection requirements
- functions and design principles of drainage
- hazards that may exist when installing and maintaining surface track drainage, and ways of controlling the risks involved
- hydrology and hydraulics rail industry standard

- problems that may occur when installing and maintaining surface track drainage, and action that can be taken to report or resolve these problems
- relevant recording and documentation procedures
- relevant safety, work health and safety (WHS)/occupational health and safety (OHS), and environmental procedures and regulations
- required rail industry standards for materials and the methods involved in installing and maintaining surface track drainage
- workplace procedures for installing and maintaining surface track drainage.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Practical assessment must occur in 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 include:

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

Links

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