



Australian Government

TLIS0003 Install turnouts

Release: 1

TLIS0003 Install turnouts

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 turnouts in accordance with rail industry standards, safeworking and regulatory requirements, and workplace procedures.

It includes transporting and installing points and crossings; 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.

The unit involves the application of routine operational principles and procedures when installing points and crossings, 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.

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| 1 Prepare to install turnouts | 1.1 Work requirements are established to identify scope of work and resources required |
| | 1.2 Construction design or plan is obtained and interpreted |
| | 1.3 Required resources are acquired in accordance with workplace procedures |
| | 1.4 Hazards are identified, risks are assessed and control measures are implemented |
| | 1.5 Existing track work is removed from worksite |
| | 1.6 Track bed is prepared for installation of points and crossings in accordance with workplace procedures |
| 2 Prepare points and crossings for transport | 2.1 Transport requirements are confirmed |
| | 2.2 Transport requirements are followed in accordance with manufacturer instructions and workplace procedures |
| | 2.3 Documentation is completed and processed in accordance with workplace procedures |
| 3 Install turnouts | 3.1 New points and crossings are installed in accordance with specified design, manufacturer instructions and workplace procedures |
| | 3.2 Dimensions, geometry, condition and operation are checked for compliance with rail industry standards in accordance with design, manufacturer instructions and workplace procedures |
| | 3.3 Non-compliances are repaired or replaced, as required in accordance with workplace procedures |
| 4 Complete installation process | 4.1 Documentation is completed in accordance with organisational procedures |
| | 4.2 Appropriate personnel are informed that the installation has been completed, in accordance with organisational 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 but is not equivalent to TLIS3045 Install turnouts.

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 TLIS0003 Install turnouts

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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 by installing points and crossings on at least two separate occasions and include:

- applying relevant safeworking system and workplace procedures
- communicating effectively with others
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- installing points and crossings to plans and specifications
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- reading and interpreting relevant technical data, standards and drawings
- using appropriate equipment to make accurate measurements of points and crossings
- 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:

- clearances and tolerances
- documentation and record keeping requirements
- features and principles of operation of points and crossings
- hazards that may exist when installing points and crossings, and ways of controlling the risks involved
- measurement techniques
- point and crossing rail industry standards, manufacturer instructions and workplace procedures
- problems that may occur when installing points and crossings, and action that can be taken to report or resolve these problems
- relevant communications systems and procedures
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations

- techniques for installing points and crossings
- workplace procedures for installing points and crossings.

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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