



Australian Government

TLIB3095 Check and repair points and crossings

Release: 2

TLIB3095 Check and repair points and crossings

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 check and repair points and crossings in accordance with rail industry standards, safeworking and regulatory requirements, and workplace procedures.

It includes determining job requirements, maintaining components and tolerances, installing components, conducting post-installation checks 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 under some supervision, generally within a team environment. It involves the application of routine operational principles and procedures when checking and repairing points and crossings, 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

B – Equipment Checking and Maintenance

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 Determine job requirements

- 1.1** Faults and deficiencies in points and crossings are identified and work required to restore track to required standard is determined
- 1.2** Hazards are identified, risks are assessed and control measures are implemented
- 1.3** Repair methods are appropriately identified to enable repairs to be made
- 1.4** Job requirements are determined in accordance with workplace procedures, and scope of work activities and resources required are identified

2 Maintain components and tolerances

- 2.1** Clearances are adjusted to specifications to ensure correct functioning
- 2.2** Wearing surfaces are cleaned and lubricated as required to minimise wear and ensure correct functioning

3 Install components

- 3.1** New components are prepared to specifications ready for installation
- 3.2** Tools and equipment required for installation are identified and accessed
- 3.3** New and replacement components are installed in accordance with rail industry standards and workplace procedures

4 Conduct post-installation checks

- 4.1** Functional checks are carried out to ensure correct operation
- 4.2** Completed work is checked for compliance to acceptance standards in accordance with workplace procedures
- 4.3** Operating conditions are applied appropriately, in accordance with workplace procedures

5 Complete documentation

- 5.1** Required documentation procedures and processes are confirmed

- 5.2 Documentation is filled in legibly and proofread
- 5.3 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 TLIB3095A Check and repair points and crossings.

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 TLIB3095 Check and repair points and crossings

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.

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 three separate occasions and include:

- applying relevant workplace procedures
- cleaning and adjusting components, and/or preparing and installing components
- completing relevant documentation accurately and to required workplace standards
- determining work requirements and work methods
- identifying defects in special track work affecting safe operation
- identifying faults and appropriate repair methods
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- identifying/locating defects in points and crossings
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- reading and interpreting relevant instructions, procedures, information, technical data, standards and drawings
- reporting and/or rectifying identified problems, faults or malfunctions in accordance with regulatory requirements and workplace procedures
- selecting and applying appropriate lubricants in accordance with safety data sheets (SDS)/material safety data sheets (MSDS) and/or manufacturer instructions and workplace procedures
- selecting and using appropriate installation and repair techniques and equipment to correct defects in points and crossings
- using appropriate equipment and methods to make accurate measurements on points and crossings
- 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:

- component replacement techniques
- defect tolerances and maintenance techniques
- defects that can occur in points and crossings
- documentation and record keeping requirements
- features and principles of operation of points and crossings
- hazards that may exist when checking and repairing points and crossings, and ways of controlling the risks involved
- installation and maintenance requirements for manual points equipment
- measurement techniques
- points and crossings rail industry standards
- problems that may occur when checking and repairing points and crossings, and action that can be taken to report or resolve these problems
- relevant clearances/tolerances specifications required when checking and repairing points and crossings
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- special maintenance requirements for points and crossings
- types of lubricants and SDS/MSDS and manufacturer instructions
- workplace procedures for checking and repairing 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.

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

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>