



Australian Government

TLIB3019 Test train braking system

Release: 2

TLIB3019 Test train braking system

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 Performance Criteria
- Minor statement changes in Performance Evidence
- Minor statement changes 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 test a train braking system in accordance with workplace procedures, safeworking rules, regulations and codes of practice.

It includes planning and preparing for, and testing train brake operation; dealing with identified faults; and recording brake test results in accordance with workplace requirements.

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 without supervision, generally within a team environment.

Testing train braking system can involve:

- air continuity test
- brake leakage test
- hose and pipe components repair or replacement
- modified brake test
- train brake test.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance.

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Plan and prepare for train brake inspection and testing	1.1 Brake test documentation, rolling stock data and other relevant reports are read and clarified, as required, to confirm required action
	1.2 Appropriate equipment is obtained, as required, and checked prior to inspection
	1.3 Work health and safety (WHS)/occupational health and safety (OHS) legislation, codes of practice, policies and procedures are identified and followed
	1.4 Hazards are identified, risks are assessed and risk control measures are implemented
	1.5 Train is isolated or secured in accordance with workplace procedures to make the work area safe for inspection
2 Inspect and test train brake operation	2.1 Brake leakage test is conducted to ensure compliance with required standards
	2.2 Modified brake tests are conducted to ensure compliance with required rail network standards
	2.3 Air continuity test is conducted to ensure train braking system meets functional specifications
	2.4 Brakes are applied and released to ensure train braking system meets functional specifications

	2.5	Hoses and pipe components are inspected for defects requiring repair or replacement
	2.6	Defects and faults are identified, reported and appropriate actions are taken in accordance with workplace procedures
3 Deal with identified faults	3.1	Plans and/or procedures for replacement or repair of identified defective components are implemented in accordance with workplace procedures and manufacturer specifications
	3.2	Confirmation/verification of minor repairs or replacements is obtained
	3.3	Defective rolling stock not fit to run is identified and detachment arrangements are made in compliance with workplace procedures
4 Record test results	4.1	Brake test records are completed to reflect inspection results in accordance with workplace policies and procedures
	4.2	Records are filed in accordance with workplace policies and 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 TLIB3019B Test train braking system.

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 TLIB3019 Test train braking system

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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 rail safety practices and procedures whilst following operational instructions and prioritising work including:
 - modifying activities depending on operational contingencies, risk situations and environments
- communicating and working collaboratively with others
- conducting inspections and testing brake operations on relevant types of passenger train, freight train or railcar in accordance with workplace procedures including:
 - reporting identified problems, faults or malfunctions promptly in accordance with regulatory requirements and workplace procedures
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- operating and adapting to differences in brakes and related equipment in accordance with operating procedures
- reading and interpreting relevant instructions, procedures, information and signs
- selecting and using required personal protective equipment (PPE) conforming to industry and work health and safety (WHS)/occupational health and safety (OHS) standards
- 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:

- brake systems, their components and their operation including:
 - brake system diagnostic or fault-finding techniques
 - defects and faults in train braking systems and relevant workplace procedures to deal with identified defects and faults including isolation and lockout/tagout procedures
- documentation requirements relating to brake testing including:
 - procedures for completing relevant documentation
- equipment applications
- relevant workplace procedures
- types of brake tests and their purpose.

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 where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions replicate rail 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 PPE currently used in industry
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals.

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