**TLIB3019 Test train braking system**

**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 test a train braking system in accordance with workplace procedures, safeworking 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**

Not applicable.
Elements and Performance Criteria

<table>
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<th>ELEMENTS</th>
<th>PERFORMANCE CRITERIA</th>
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<td>Elements describe the essential outcomes.</td>
<td>Performance criteria describe the performance needed to demonstrate achievement of the element.</td>
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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 tools and equipment are 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 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 and rolling stock is carded

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.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

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.education.gov.au/Pages/TrainingDocs.aspx?q=df41c6e-213d-43e3-874c-0b3f7036d851