



Australian Government

TLIB2111 Assist with testing train braking system on electric passenger train

Release: 2

TLIB2111 Assist with testing train braking system on electric passenger train

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor 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 assist with testing the train braking system on electric passenger trains in accordance with workplace procedures and the requirements of relevant safeworking regulations and codes of practice.

It includes preparing for train brake inspection and testing, inspecting and testing train brake operation, dealing with identified faults, and reporting and/or 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 and safeworking requirements and to comply with relevant codes of practice and/or guidelines.

Work is performed under minimal supervision, generally within a team environment. It involves the application of operational principles, regulations, safeworking codes, protocols and procedures when testing a train braking system, as part of workplace activities across a variety of operational contexts within the Australian rail industry.

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

Elements describe the essential outcomes.

1 Prepare for train brake inspection and testing

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) legislation, codes of practice, policies and procedures are identified and followed

1.2 Isolation or securing of train is confirmed in accordance with workplace procedures to make the work area safe for the inspection and test

1.3 Hazards are identified, risks are assessed and risk control measures are implemented

1.4 Readiness of brake system for inspection and testing is confirmed

2 Test train brake operation

2.1 Brake tests are conducted to ensure compliance with required rail industry standards

2.2 Modified brake tests are conducted in accordance with workplace procedures to meet required rail industry standards, as required

2.3 Continuity tests are conducted in accordance with workplace procedures to ensure train braking system meets functional specifications

2.4 Corrective action is taken when faults are identified to ensure operational safety

2.5 Faults or defects found during brake tests are reported and/or recorded 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 TLIB2111A Assist with testing train braking system on electric passenger train.

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 TLIB2111 Assist with testing train braking system on electric passenger train

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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 two occasions and include:

- applying rail safety practices, rail industry standards, rules, codes of practice and guidelines
- assessing brake system defects
- completing relevant documentation
- identifying correct procedures to be followed in a failed brake test
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- 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
- operating and adapting to differences in brakes and related equipment in accordance with operating procedures
- performing all types of applicable brake tests in accordance with workplace procedures
- reading and interpreting relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions promptly, in accordance with regulatory requirements and workplace procedures
- 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
- diagnostic techniques for electric passenger train braking systems

- different types of electric passenger train braking systems failures/defects that could occur
- documentation requirements relating to brake testing
- emergency procedures
- relevant sections of applicable state/territory legislated rail safety requirements, rail industry standards, codes of practice and/or guidelines
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations including codes of practice
- 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.

Assessments 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 assessments must occur in an appropriate range of situations in the rail workplace.

A simulator assessment is not suitable for the final assessment of this unit of competency

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 assess 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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