



Australian Government

TLIB2133A Test medium/heavy track vehicle braking system

Release: 1

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Modification History

Release 1 - New unit of competency

Unit Descriptor

This unit involves the skills and knowledge required to test the braking system on medium/heavy track vehicle/s in accordance with manufacturer specifications and/or organisational procedures.

Licensing or certification requirements are not applicable to this unit.

Application of the Unit

This unit applies to people involved in testing a track vehicle braking system as part of workplace activities within the rail industry.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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| 1 Plan and prepare for track vehicle brake inspection and testing | <p>1.1 Logbooks and any other documentation are checked for existing defects</p> <p>1.2 Track vehicle is isolated or secured, in accordance with workplace procedures, to make the work area safe prior to inspection</p> |
| 2 Inspect and test track vehicle brake operation | <p>2.1 Visual and audible inspection is conducted to identify faults or defects</p> <p>2.2 Brakes are applied and released to ensure track vehicle braking system meets functional specifications</p> <p>2.3 Identified defects and faults are rectified and/or reported in accordance with manufacturer specifications and/or organisational procedures</p> |
| 3 Complete documentation | <p>3.1 Documentation concerning inspecting and testing the braking system is completed in accordance with organisational procedures</p> <p>3.2 Logbook and other service records on the track vehicle are completed in accordance with organisational procedures</p> |

Required Skills and Knowledge

This section describes the knowledge and skills required for this unit.

Required knowledge:

- Hazards that may exist during the start up and shut down of medium/heavy self-propelled track vehicles and ways of controlling the risks involved
- Organisational procedures for conducting brake tests on medium/heavy self-propelled track vehicles
- Problems that may occur during testing of brakes on medium/heavy self-propelled track vehicles and action that can be taken to report or resolve the problems
- Relevant rail safety, occupational health and safety (OH&S) and environmental procedures and regulations
- Types of brake tests and their purpose

Required skills:

- Adapt to differences in track vehicles and associated equipment and procedures
- Communicate effectively with others
- Modify activities depending on differing operational contingencies, risk situations and environments
- Read and interpret instructions, procedures, information and signs relevant to testing brakes on a track vehicle
- Work collaboratively with others

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
 - the required knowledge and skills
 - relevant legislation and workplace procedures
 - other relevant aspects of the range statement
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - identify correct procedure for testing braking system
 - correctly conduct brake test
 - complete brake test documentation
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - conducting inspections and testing of different types of brakes on medium/heavy track vehicle/s
 - identifying defects and faults in track vehicle braking systems
 - implementing workplace procedures to deal with identified defects and faults
 - completing records of test results in accordance with workplace procedures

Context of and specific resources for assessment

- Performance is demonstrated consistently over a period of time and in a suitable range of contexts
- Resources for assessment include:
 - a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
- In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

- As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
- Practical assessment must occur:
 - through activities in an appropriately simulated environment, and/or
 - in an appropriate range of situations in the workplace

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Types of brakes and tests may include:

- hand/park brake
- service brake
- train brake
- emergency brake

Safety and protective equipment may include:

- high visibility clothing
- gloves
- safety glasses
- safety headwear
- safety footwear
- hearing protection

Information/documents may include:

- workplace procedures and instructions and job specification
- manufacturer specifications and standards

Unit Sector(s)

Not applicable.

Competency Field

B – Equipment Checking and Maintenance