



Australian Government

TLIB3126A Assist in the testing of heritage train braking systems

Release 1

TLIB3126A Assist in the testing of heritage train braking systems

Modification History

Release 1 - New unit of competency

Unit Descriptor

This unit involves the skills and knowledge required to assist in the testing of heritage train braking systems in accordance with organisational procedures and the requirements of relevant safeworking regulations and codes of practice.

Licensing or certification requirements are not applicable to this unit.

Application of the Unit

This unit is intended for people who will be assisting with testing brake systems on steam and/or heritage locomotives and trains.

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

- | | |
|---|---|
| 1 Assist with locomotive brake testing | <p>1.1 Under the direction of the driver, the application of the locomotive brake is observed to ensure it is within operational parameters</p> <p>1.2 Occupational health and safety (OH&S) requirements, codes of practice, policies and procedures are identified and followed</p> <p>1.3 Work area is made safe for testing by ensuring locomotive is isolated and secured in accordance with workplace procedures</p> <p>1.4 Problems, faults or malfunctions are identified, responded to and/or reported in accordance with workplace procedures</p> |
| 2 Assist with train brake examination | <p>2.1 Under the direction of the driver, train brake is applied in accordance with organisational procedures</p> <p>2.2 Under the direction of the driver, train brake is released in accordance with organisational procedures</p> |
| 3 Apply and release handbrake | <p>3.1 Under the direction of the driver, handbrake is applied in accordance with organisational procedures</p> <p>3.2 Under the direction of the driver, handbrake is released in accordance with organisational procedures</p> |

Required Skills and Knowledge

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

Required knowledge:

- Brake systems, their components and their operation
- Communication protocols
- Legislated rail safety requirements including acts and regulations from each applicable state and territory together with any nationally approved compliance codes and/or guidelines
- Relevant OH&S procedures and regulations
- Types of brake tests and their purpose
- When it is applicable to release train brake

Required skills:

- Apply rail safety practices and regulations
- Communicate effectively with others when testing heritage locomotive or train braking systems
- Interpret and follow operational instructions
- Modify activities depending on operational contingencies, risk situations and environments
- Promptly report any identified problems, faults or malfunctions when testing heritage locomotive and train braking systems in accordance with regulatory requirements and organisational procedures
- Read and interpret instructions, procedures, information and signs relevant to testing heritage locomotive and train braking systems
- Select and use required personal protective equipment conforming to industry and OH&S standards
- Work collaboratively with others when testing heritage locomotive and train braking systems

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:
 - identifying procedures to test heritage train brake systems
 - assisting with a heritage train brake test
 - applying and removing handbrakes and brakes on a heritage locomotive

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 practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
- 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:
 - 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.

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|---|---|
| Operations conducted by day or night in: | <ul style="list-style-type: none">• all weather conditions• full range of light conditions |
| Locations for tests may include: | <ul style="list-style-type: none">• heavy traffic• yards or sidings• station platforms |
| Tests may include: | <ul style="list-style-type: none">• air continuity test• modified brake test• train brake test |
| Safety and protective equipment may include: | <ul style="list-style-type: none">• high visibility clothing• gloves• sunscreen• sunglasses• safety glasses• insect repellent• safety headwear• safety footwear• portable radios/mobile phones• hand lamps• flags• hearing protection |
| Information/documents may include: | <ul style="list-style-type: none">• workplace procedures, instructions and job specifications• manufacturer specifications and standards• brake inspection and testing documentation• safeworking documentation• brake test certification• equipment operations manuals• conditions of service, legislation and industrial agreements including workplace agreements and awards |
| Applicable regulations and legislation may include: | <ul style="list-style-type: none">• legislated rail safety requirements including acts and regulations from each applicable state and territory together with any nationally approved compliance codes and/or guidelines• relevant state/territory OH&S legislation• relevant state/territory environmental protection legislation• relevant Australian Standards |

Unit Sector(s)

Not applicable.

Competency Field

B – Equipment Checking and Maintenance