



Australian Government

TLIC4071 Establish and operate train braking system

Release: 2

TLIC4071 Establish and operate 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 terminology changes in Performance Criteria
- Minor terminology changes in Performance Evidence
- Minor terminology 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 identify, establish and operate a train braking system after it has been marshalled, and deals with brake system faults and failures.

It includes identifying and operating train braking system, and locating and rectifying or isolating system faults during operation in accordance with workplace procedures.

This unit covers activities carried out in a rail yard or on a main line.

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

Pre-requisite Unit

Not applicable.

Competency Field

C – Vehicle Operation.

Unit Sector

Rail sector.

Elements and Performance Criteria

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

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|--|---|
| 1 Identify and establish train braking system | <ul style="list-style-type: none">1.1 Brake system and type to be used are identified1.2 Confirmation is made that motive power unit is appropriate for braking system to be used1.3 Correct coupling of braking system to motive power unit is established and/or confirmed in accordance with workplace policies and requirements1.4 Air brake system is charged to required pressures in accordance with manufacturer requirements and tolerances |
| 2 Operate and monitor train braking system | <ul style="list-style-type: none">2.1 Relevant brake system tests are conducted in accordance with workplace policies and requirements2.2 Hazards are identified, risks are assessed and risk control measures implemented2.3 Train brakes are applied and released under normal operational conditions in accordance with correct train handling and workplace policies and procedures2.4 Train brake system is monitored in accordance with workplace and/or operational requirements |
| 3 Identify and rectify train braking system faults during operation | <ul style="list-style-type: none">3.1 Train braking system faults are identified during operation3.2 Safe location to bring train to a stand is identified in accordance with train handling and workplace policies and procedures3.3 Train brake system fault is located and rectified or isolated in accordance with manufacturer and/or workplace procedures3.4 Relevant brake system tests are conducted in accordance with workplace policies, procedures and requirements3.5 Train is operated 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 TLIC4071A Establish and operate 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 TLIC4071 Establish and operate 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 relevant rail safety practices and workplace procedures
- assessing brake system defects
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards
- interpreting and following operational instructions and prioritising work
- interpreting capabilities of train braking systems
- modifying activities depending on operational contingencies, risk situations and environments
- modifying driving in accordance with brake capabilities and characteristics
- operating and adapting to differences in brakes and related equipment in accordance with workplace operating procedures
- reading and interpreting relevant instructions, procedures, information and signs
- reporting identified problems, faults or malfunctions promptly in accordance with regulatory requirements and workplace procedures
- 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
- capabilities and characteristics of train braking systems
- diagnostic and/or fault-finding techniques
- documentation and information requirements
- pneumatic systems and their operations
- releasing train brakes after emergency application in accordance with workplace policies and procedures
- relevant environmental protection legislation, regulations, codes of practice, policies and procedures
- relevant rail safety, state/territory legislated rail safety requirements, rail industry standards, rules, codes of practice and/or guidelines
- relevant WHS/OHS legislation, regulations, codes of practice, policies and procedures
- tools and equipment applications
- 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 rail corridor 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 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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