



Australian Government

TLIC3048B Shunt couple and uncouple electric passenger trains

Release 1

TLIC3048B Shunt couple and uncouple electric passenger trains

Modification History

New release. This unit replaces and is equivalent to TLIC3048A.

Unit Descriptor

This unit involves the skills and knowledge required to shunt, couple and uncouple an electric passenger train to operational requirements in accordance with safeworking and regulatory requirements, and workplace procedures. This includes planning and preparing for shunting operations, shunting the train, coupling and uncoupling the train, and using a coupling adaptor.

Licensing or certification requirements are not applicable to this unit.

Application of the Unit

People achieving competence in this unit will need to fulfil the applicable legislated rail safety requirements including state and territory acts and regulations together with any nationally approved compliance codes and/or guidelines.

Work is generally performed without supervision and within a team environment. It involves the application of routine operational principles and procedures to shunting, coupling and uncoupling electric passenger trains to operational requirements as part of workplace activities across a variety of operational contexts within the Australian rail system.

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 shunting operation | <p>1.1 Shunting requirements are confirmed through workplace documents and/or relevant personnel</p> <p>1.2 Local safety requirements are identified and performed in accordance with workplace procedures</p> <p>1.3 Relevant occupational health and safety (OH&S) requirements are followed to prevent injury and damage</p> |
| 2 Shunt trains | <p>2.1 Where required, points, levers and/or switches are operated in accordance with workplace requirements</p> <p>2.2 Audible signals, hand signals and other line of sight communications are used to assist the control of train movements</p> <p>2.3 Hand, light and radio shunting commands used are responded to in accordance with workplace requirements</p> <p>2.4 Pre-movement inspection/tests are carried out prior to moving trains</p> <p>2.5 Train is shunted and positioned in accordance with operational/workplace requirements</p> <p>2.6 Following shunt movement train is secured in accordance with workplace requirements</p> |
| 3 Couple trains | <p>3.1 Type of connections required are identified prior to coupling</p> <p>3.2 Trains to be coupled are positioned in accordance with operating procedures and workplace requirements</p> <p>3.3 Trains to be coupled are fully secured</p> <p>3.4 Alignment of couplers in the appropriate position for type of connection required is ensured</p> <p>3.5 Prior to coupling trains, safety requirements are ensured</p> <p>3.6 Trains are coupled in accordance with operational/workplace requirements</p> <p>3.7 Post-coupling inspection/tests are carried out in accordance with operating procedures and workplace requirements</p> |
| 4 Uncouple trains | <p>4.1 Trains to be uncoupled are identified and pre-uncoupling checks and, where required, procedures are conducted in accordance with operating procedures and workplace requirements</p> <p>4.2 Prior to uncoupling trains safety requirements are ensured</p> <p>4.3 Train that will remain after uncoupling is fully secured</p> <p>4.4 Trains are uncoupled in accordance with operating procedures and workplace requirements</p> |

4.5 Post-uncoupling inspection/tests are carried out in accordance with operating procedures and workplace requirements

5 Use coupling adaptor

5.1 Situations requiring the use of a coupling adaptor are identified in accordance with workplace procedures

5.2 Coupling adaptor is accessed and transported to required location for use

5.3 Prior to fitting coupling adaptor, safety requirements are ensured

5.4 Coupling adaptor is attached to one of the trains prior to coupling in accordance with workplace procedures

5.5 Trains are coupled in accordance with workplace procedures and coupling adaptor is secured in place

5.6 Post-coupling inspection/tests and/or procedures are carried out in accordance with operating procedures and workplace requirements

Required Skills and Knowledge

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

Required knowledge:

- Applicable minimum standards and approved compliance codes and/or guidelines
- Communication protocols
- Coupling systems, their components and their operation
- Diagnostic techniques relating to shunting, coupling and uncoupling electric passenger trains
- Procedures to be followed in an emergency
- Relevant OH&S and environmental procedures and regulations including codes of practice for manual handling
- Shunting procedures and requirements
- Types of couplers and their purpose
- Types of coupling adaptors and their purpose (where used)

Required skills:

- Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
- Apply rail safety practices and regulations
- Assess shunting, coupling and uncoupling defects
- Communicate effectively with others when shunting, coupling and uncoupling electric passenger trains
- Identify and assess electric passenger train defects and deficiencies, and take appropriate action to report, isolate, repair or replace any identified defective equipment in accordance with workplace procedures
- Implement contingency plans for unplanned events
- Interpret and follow operational instructions and prioritise work
- Modify activities depending on differing operational contingencies, risk situations and environments
- Monitor work activities in terms of planned schedule
- Operate and adapt to differences in trains and related equipment in accordance with standard operating procedures
- Operate electronic communication equipment to required protocol
- Promptly report and/or rectify any identified problems, faults or malfunctions when shunting, coupling and uncoupling electric passenger trains in accordance with regulatory requirements and workplace procedures
- Read and interpret instructions, procedures, information and signs relevant to shunting, coupling and uncoupling electric passenger trains
- Select and use required personal protective equipment conforming to industry and OH&S standards

- Work collaboratively with others when shunting, coupling and uncoupling electric passenger trains
- Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment

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:
 - carrying out pre-shunting checks correctly
 - shunting in a number of locations including sidings and depots/yards
 - coupling an electric passenger train,

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

- Assessment of this unit must be undertaken by a registered training organisation
- 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.

Equipment may include:	• electric passenger train • transition coupler • emergency coupler • coupling adaptor
OH&S requirements may include the use of:	• gloves • sunscreen, sunglasses and safety glasses • insect repellent • safety footwear • portable radios • hand lamps • flags • high visibility clothing • emergency warning devices • portable signs and markers
Contingencies may include:	• derailments • collisions • breakdowns • injuries and fatalities • fires • track damage • powerline damage • broken/missing equipment
Contingency plans and contingencies may involve:	• emergency procedures manuals • safeworking systems and requirements
Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:	• company procedures • enterprise procedures • organisational procedures • established procedures
Information/documents may include:	• applicable legislated rail safety requirements including state and territory acts and regulations together with any nationally approved compliance codes and/or guidelines • noticeboards • special train notices • periodical circulars • rules and operating procedures • computer-based data systems

Applicable regulations,
legislation and codes may
include:

- timetables
- train consist
- incident reports
- train register book
- emergency procedures manual
- conditions of service, legislation and industrial agreements including workplace agreements and awards
- relevant state/territory codes of practice and safeworking system requirements
- relevant state/territory OH&S legislation
- relevant state/territory fatigue management regulations
- relevant state/territory environmental protection legislation
- relevant Australian Standards

Unit Sector(s)

Not applicable.

Competency Field

C – Vehicle Operation