



Australian Government

TLIC3017 Shunt rolling stock

Release: 2

TLIC3017 Shunt rolling stock

Modification History

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

- Minor statement terminology changes in Performance Criteria
- Minor statement 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 safely shunt rolling stock in accordance with system of safeworking and regulatory requirements, and workplace procedures.

It includes controlling and directing the physical movement of rolling stock and operating relevant equipment to carry out planned shunting strategy.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Work is performed under some supervision, generally within a team environment.

It involves the application of routine operational principles and procedures when carrying out shunting activities as part of workplace activities across a variety of operational contexts within the Australian rail system.

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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan and prepare for shunting operation

- 1.1** Shunting requirements are interpreted and clarified, and vehicles and equipment are obtained and prepared in accordance with shunting strategy or plan
- 1.2** Rolling stock movements, availability and locations are established to determine appropriate siding and/or track locations for vehicle placement
- 1.3** Relevant work health and safety (WHS)/occupational health and safety (OHS) legislation, codes of practice, workplace policies and procedures, and systems of safeworking and requirements related to shunting are identified

2 Carry out shunting control procedures

- 2.1** Points, levers, switches, signals and line of sight communications are used to assist the control of rolling stock movement
- 2.2** Uniform hand signals, light and radio shunting commands that conform with operational rules and statutory requirements are used
- 2.3** Relevant WHS/OHS requirements are followed to prevent injury and damage
- 2.4** Rolling stock cards are checked and wagons are obtained and sorted to comply with shunting plan requirements
- 2.5** Shunting control techniques are applied to prevent damage of rolling stock and loads/contents

3 Shunt rolling stock

- 3.1** Workplace procedures for shunting are identified and applied
- 3.2** Rolling stock is positioned to meet shunting requirements
- 3.3** Coupling systems are identified and applied to attach and detach rolling stock
- 3.4** Connecting brake hoses, electrical couplings and hand brakes are connected/disconnected and applied/released in accordance with operational and WHS/OHS requirements
- 3.5** Rolling stock is shunted with the minimum of necessary moves within governing safety requirements and limitations

4 Finalise train consist

- 4.1** Train consists are made up in accordance with workplace procedures and timetabling requirements
- 4.2** Irregularities and defects with rolling stock equipment are reported in accordance with operational requirements

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 TLIC3017A Shunt rolling stock.

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 TLIC3017 Shunt rolling stock

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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:

- checking draw gear, vehicle and equipment in terms of service schedule and operating procedures
- completing relevant documentation
- displaying and correctly interpreting hand, light and radio signals in accordance with workplace procedures
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards
- interpreting and following operational instructions and prioritise work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring condition and performance of equipment and taking appropriate actions, as required
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with operating 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:

- applicable state/territory legislated rail safety requirements, relevant codes of practice and/or guidelines
- characteristics and features of wagons and other rolling stock
- defects that can occur on a shunting gear and equipment and related actions that should be taken
- draw gear capacities and related operating procedures
- emergency response procedures
- location and operation of signals and points
- principles of operation of protective devices, air brakes, handbrakes and derailleurs
- procedures for:
 - coupling and uncoupling rolling stock
 - identifying and reporting hazards
 - loading and unloading procedures
 - operating points and signals
 - radio communications protocol
 - rolling stock cards
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations including codes of practice
- shunting plan, strategy and instructions
- shunting signals and commands and line of sight communications systems
- system of safeworking rule requirements
- track and signal layouts and features in yard.

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 personal protective equipment (PPE) currently used in industry
- applicable documentation including workplace procedures, rules, regulations, dangerous goods systems, codes of practice and operation manuals.

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