



Australian Government

TLIC2074A Couple and uncouple track maintenance vehicles

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 safely couple/uncouple track vehicles in accordance with safeworking and organisational policies and procedures.

Licensing, legislative, regulatory or certification requirements are not applicable to this unit.

Application of the Unit

This unit is intended for all types of track maintenance vehicles which are required to be coupled and uncoupled as part of operational requirements.

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 Prepare to couple track maintenance vehicles

- 1.1 Coupling instructions are interpreted and confirmed as meeting minimum operating standards
- 1.2 Location of vehicles and required movements are identified
- 1.3 Communication methods to be used are agreed and confirmed
- 1.4 Vehicle/s to be coupled are secured in accordance with organisational procedures

2 Couple track maintenance vehicles

- 2.1 Setting of route and having correct authority in place is ensured prior to movement of track vehicles
- 2.2 Required warning is given before vehicle is moved
- 2.3 Vehicle is moved in a controlled manner to enable safe coupling and prevent damage
- 2.4 Coupling mechanisms are checked to ensure they are correctly engaged
- 2.5 Where applicable, connecting brake hoses and/or electrical couplings are connected in accordance with organisational procedures and/or manufacturer specifications
- 2.6 Securing devices are released/removed in accordance with organisational procedures

3 Uncouple and secure track maintenance vehicles

- 3.1 Vehicles are positioned to meet uncoupling requirements in accordance with organisational procedures
- 3.2 Securing devices are applied/attached in accordance with organisational procedures
- 3.3 Brake hoses and/or electrical couplings are disconnected in accordance with organisational procedures and/or manufacturer specifications
- 3.4 Coupling devices are correctly disengaged
- 3.5 Before vehicle is moved, required warning is given
- 3.6 Vehicles are separated in a controlled manner to enable safe uncoupling and prevent damage

Required Skills and Knowledge

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

Required knowledge:

- Communication protocols
- Identifying equipment defects and assessing for appropriate action
- Minimum operating requirements
- Principles of operation of protective devices, air and electrical couplings, handbrakes, derailleurs and coupling equipment
- Relevant legislated occupational health and safety (OH&S) and rail safety requirements including acts and regulations from each applicable state and territory together with any nationally approved compliance codes and/or guidelines

Required skills:

- Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
- Communicate effectively with others when coupling/uncoupling track maintenance vehicles
- Modify activities depending on operational contingencies, risk situations and environments
- Operate and adapt to differences in equipment in accordance with standard operating procedures
- Operate communication equipment to required protocol
- Read and interpret instructions, procedures, information and signs relevant to coupling/uncoupling track maintenance vehicles
- Report and/or rectify any identified problems, faults or malfunctions when coupling/uncoupling track maintenance vehicles in accordance with regulatory requirements and workplace procedures
- Select and use required personal protective equipment conforming to industry and OH&S standards
- Work collaboratively with others when coupling/uncoupling track maintenance vehicles
- 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:
 - identify communication methodologies and requirements
 - demonstrate correct method for coupling track vehicles
 - demonstrate correct method for uncoupling track vehicles
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - identifying alternative coupling equipment and methods for track maintenance vehicles in the workplace
 - demonstrating the correct use of communication methods during coupling and uncoupling activities
 - correctly securing vehicles before coupling and after uncoupling has been completed

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.

Track maintenance vehicles may include:	• track machines • shunting tractors • road/rail vehicles • wagon • track inspection vehicles • overhead wiring maintenance vehicle
Communication methods may include:	• hand signals • light signals • flags • verbal • audible (horns, whistles etc.)
Required warnings may include:	• verbal • audible (horns, whistles etc.)
Coupling mechanisms may include:	• automatic couplers • draw hooks • tow bar • transition coupler
Securing devices may include:	• hand brake • park brake • chocks
Personal protective equipment may include:	• gloves • safety eyewear • hearing protection • safety headwear • safety footwear • high visibility clothing
Depending on the type of organisation concerned and the local terminology used, organisational procedures may be known as:	• company procedures • enterprise procedures • workplace procedures • established procedures
Information/documents may include:	• legislated rail safety requirements including acts and regulations from each applicable state and territory together with any nationally approved compliance codes and/or guidelines • notices • yard orders • manufacturers specifications

- emergency procedures

Unit Sector(s)

Not applicable.

Competency Field

C – Vehicle Operation