



Australian Government

TLIC2080A Start up, shut down and stable medium/heavy self-propelled on-track equipment

Release: 1

TLIC2080A Start up, shut down and stable medium/heavy self-propelled on-track equipment

Modification History

Release 1 - New unit of competency

Unit Descriptor

This unit involves the skills and knowledge required to start up, prepare, shut down and stable a medium/heavy self-propelled track vehicle on a rail network in accordance with network owner policies and procedures.

Medium or heavy on-track equipment generally weighs more than 10 tonnes and is permanently railed.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

This unit is suitable for people required to start up and prepare a medium/heavy self-propelled track vehicle prior to leaving a stabling location. It also covers stabling a medium/heavy self-propelled track vehicle, including shutting the vehicle down and securing it.

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 Inspect and prepare track vehicle

- 1.1 Identification and location of track vehicle is confirmed
- 1.2 Logbook and track vehicle are checked for out of service indications and to confirm serviceability and logbook is completed accurately in accordance with organisational requirements or manufactures specification
- 1.3 Where applicable, track vehicle kit and equipment are checked and defects and deficiencies are recorded and rectified, isolated, tagged (where applicable) or reported in accordance with organisational procedures
- 1.4 Consumables are checked and replenished as required
- 1.5 External visual checks are conducted in accordance with manufacturer and/or organisational procedures
- 1.6 Problems are identified and rectified in accordance with organisational procedures
- 1.7 Identified problems are reported and/or documented in accordance with organisational procedures

2 Start up track vehicle

- 2.1 Track vehicle is started in accordance with manufacturer instructions and/or organisational procedures
- 2.2 Any operating faults are identified, diagnosed, rectified and/or reported and recorded in appropriate records
- 2.3 Appropriate instruments and gauges are observed and readings are interpreted to confirm effective operation in accordance with manufacturer and/or organisational procedures
- 2.4 Where required, fluid levels are rechecked after starting and appropriate action is taken if required

3 Conduct in-cab checks

- 3.1 Track vehicle in-cab checks are conducted in accordance with manufacturer and/or organisational procedures
- 3.2 Driver safety systems are checked to ensure they are functioning correctly and appropriate action is taken if they are not
- 3.3 All communication equipment is checked to ensure that it is functioning correctly and appropriate action is taken if it is not
- 3.4 Auxiliary and emergency equipment is checked and confirmed to be operational in accordance with operating requirements
- 3.5 All required documentation concerning inspecting track vehicle is completed in accordance with organisational procedures

4 Stable medium/heavy

- 4.1 Approval is requested from appropriate person to direct when

self-propelled track vehicle

and where to stable self-propelled track vehicle

4.2 Track vehicle is moved to nominated stabling location

4.3 Appropriate person is contacted and informed that track vehicle is at nominated location and intact

4.4 Track vehicle is stabled as directed

4.5 Track vehicle is left in appropriate manner to ensure security and protection of vehicle and ancillary equipment

5 Shut down track vehicle

5.1 Track vehicle is shut down in accordance with manufacturer and/or organisational procedures

5.2 Track vehicle is secured in accordance with organisational procedures

5.3 Control/isolation equipment and cab is secured in accordance with organisational procedures

6 Perform post-operational procedures

6.1 Post-operational checks are conducted in accordance with manufacturer specifications or organisational procedures to identify defects and maintenance requirements

6.2 Identified problems are reported in accordance with organisational procedures

6.3 Post-operating service schedules are conducted in accordance with organisational procedures

6.4 Required documentation is completed in accordance with organisational procedures

Required Skills and Knowledge

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

Required knowledge:

- Emergency procedures
- Hazards that may exist during start up and shut down of medium/heavy self-propelled track vehicles and ways of controlling the risks involved
- Network owner rules and regulations applicable to the job role
- Organisational procedures for starting up and shutting down medium/heavy self-propelled track vehicles
- Problems that may occur during preparing and stabling medium/heavy self-propelled track vehicles and action that can be taken to report or resolve problems
- Relevant rail safety occupational health and safety (OH&S) and environmental procedures and regulations

Required skills:

- Communicate effectively with others when preparing and stabling medium/heavy self-propelled track vehicles
- Complete documentation related to preparing and stabling medium/heavy self-propelled track vehicles
- Follow operational instructions
- Modify activities depending on operational contingencies, risk situations and environments
- Report and/or rectify any identified problems, faults or malfunctions when preparing and stabling medium/heavy self-propelled track 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 preparing and stabling medium/heavy self-propelled track vehicles

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 correct start up procedures
 - identifying correct shut down procedures
 - correctly securing vehicles when stabling on-track equipment

Context of and specific resources for assessment

- Performance is demonstrated by consistently meeting the requirements of the critical aspects for assessment over a period of time by means of evidence of work performed in a log book or similar documentation.
- 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.

Medium/heavy self-propelled track vehicles may include:

- rail crane
- spot tamper
- ballast regulator
- inserter/remover (TR10)
- track recorder
- tamper
- dynamic stabiliser
- rail grinder
- ballast cleaner
- track layer

Consumables may include:

- fuel
- oils
- water
- coolant
- sand

Auxiliary and emergency equipment may include:

- fire extinguishers
- tool box
- first aid kit
- emergency chain
- railway track signals (audible track warning devices)
- spill kits
- hydraulic/manual jacks
- spare brake blocks
- spare knuckles
- chocks
- flags

Liaison may include:

- protection officer
- person in charge of work (PICOW)
- fellow workers

Communication systems may include:

- two-way radios
- radio headsets
- telephones/mobile phones
- agreed audible or hand signals

Appropriate person may include:

- network control officer
- traffic officer
- possession officer
- PICOW

Safety and protective equipment may include:

- track protection officer
- high visibility clothing
- hearing protection
- gloves
- safety eyewear
- safety headwear
- safety footwear
- portable radios/mobile phone
- hand lamps
- flags

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:

- relevant legislated rail safety requirements including acts and regulations from each applicable state and/or territory
- operational instructions
- organisational policies and procedures
- relevant logbook and/or record book
- maintenance notices, records and requests
- local authority regulations and procedures
- technical instructions
- manufacturer or workplace equipment instructions and operation manuals
- emergency procedure manuals
- two-way radio/ mobile phone operation procedures

Applicable legislation, regulations and codes 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
- relevant Australian Standards and related requirements
- relevant state/territory OH&S legislation
- relevant state/territory environmental protection legislation

Unit Sector(s)

Not applicable.

Competency Field

C – Vehicle Operation