



Australian Government

TLIC2080 Start up, shut down and stable medium/heavy self-propelled on-track equipment

Release: 1

TLIC2080 Start up, shut down and stable medium/heavy self-propelled on-track equipment

Modification History

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 start up, prepare, shut down and stable a medium/heavy self-propelled on-track vehicle on a rail network in accordance with network owner policies and procedures.

It includes inspecting and preparing track vehicle, starting up track vehicle, conducting in-cab check, stabling medium heavy self-propelled track vehicle, shutting down track vehicle and performing post operational procedures.

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

Medium or heavy self-propelled on-track vehicles may include:

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

This unit is suitable for rail safety workers required to start up and prepare a medium/heavy self-propelled on-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.

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

Not applicable.

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 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 manufacturer specification 1.3 Track vehicle kit and equipment are checked and defects and deficiencies are recorded and rectified, isolated, tagged or reported in accordance with organisational procedures, as applicable 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 Operating faults are identified, diagnosed, rectified and/or reported and recorded in accordance with organisational procedures 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 Fluid levels are rechecked after starting and appropriate action is taken as 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 Communications equipment is checked to ensure 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 Documentation concerning inspecting track vehicle is completed and processed as required in accordance with organisational procedures
- 4 Stable medium/heavy self-propelled track vehicle**
 - 4.1 Approval is requested from appropriate person to direct when 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 are secured in accordance with organisational procedures
- 6 Perform post-operational procedures**
 - 6.1 Post-operational checks are conducted in accordance with manufacturer specifications and/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 Documentation is completed and processed as required, in accordance with organisational 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.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIC2080A Start up, shut down and stable medium/heavy self-propelled on-track equipment.

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 TLIC2080 Start up, shut down and stable medium/heavy self-propelled on-track equipment

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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 three** separate occasions and include:

- applying relevant workplace procedures
- communicating effectively with others
- following operational instructions
- identifying correct shut-down procedures in accordance with manufacturer instructions and workplace procedures
- identifying correct start-up procedures in accordance with manufacturer instructions and workplace procedures
- modifying activities depending on operational contingencies, risk situations and environments
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with regulatory requirements and workplace procedures
- securing vehicles in accordance with manufacturer instructions and workplace procedures, when stabling on-track equipment
- working collaboratively with others.

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:

- emergency management plans and 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 starting up, shutting down and stabling medium/heavy self-propelled on-track equipment
- organisational procedures for starting up and shutting down medium/heavy self-propelled on-track equipment
- problems that may occur when preparing and stabling medium/heavy self-propelled

on-track equipment and action that can be taken to report or resolve these problems

- relevant documentation concerning inspecting on-track equipment
- relevant manufacturer specifications and workplace procedures for medium/heavy self-propelled on-track equipment
- relevant rail danger zones and safeworking systems
- relevant rail safety work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment must occur on medium/heavy self-propelled on-track equipment, in workplace operational situations or, where this is not available, 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:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, codes of practice, manufacturer specifications and operation manuals.

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