



Australian Government

TLIB4076 Inspect and prepare a heritage motive power unit

Release: 2

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Modification History

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

- Minor statement changes in Performance Evidence
- 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 inspect and prepare a heritage motive power unit in accordance with workplace procedures and the requirements of relevant rail regulations and codes of practice.

It includes checking and preparing a motive power unit, visually examining a motive power unit, conducting in-cab checks, and starting and positioning a motive power unit for service in accordance with workplace requirements.

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.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance.

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Start heritage motive power unit

PERFORMANCE CRITERIA

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

- 1.1 Roster is checked and interpreted for day's train driving activities
- 1.2 Allocation of motive power units is checked in conjunction with network control officer and roster
- 1.3 Motive power unit to be inspected and prepared is located in the yard
- 1.4 Motive power unit is started in accordance with manufacturer instructions and operating faults are recognised, diagnosed, reported and recorded in appropriate records for follow-up
- 1.5 Where critical or serious equipment faults cannot be readily rectified, motive power unit is shut down, faulty equipment is isolated and tagged and problem is reported for rectification
- 1.6 Instruments and gauges are observed and readings are interpreted to confirm effective operation, including air and electrical
- 1.7 Actions are taken to determine cause of identified problems in instruments and gauges, and situation is rectified or reported
- 1.8 Fluid levels are rechecked after starting and appropriate actions are taken, as required
- 1.9 Pre-departure checks are carried out to ensure motive power unit is braking and powering effectively and is safe to move

2 Prepare for heritage motive power unit work activities

- 2.1 Roster is checked and interpreted for day's train driving activities
- 2.2 Allocation of motive power units is checked as identified by notices, in conjunction with network control officer and roster
- 2.3 Hazards are identified, risks are assessed and risk control measures are implemented
- 2.4 Trackside safety and basic electrification awareness procedures are followed while locating allocated motive power unit in the yard

- 2.5 Motive power unit inspection and preparation duties are identified and interpreted
- 2.6 Train schedules, notices and other operational and regulatory documentation are accessed and interpreted in accordance with workplace procedures
- 2.7 Communication equipment required for day's operations is obtained and checked to ensure it is functional
- 2.8 Required personal protective equipment (PPE) is obtained for use prior to day's train driving activities
- 2.9 Motive power unit to be inspected and prepared is located in the yard
- 3 Inspect and prepare heritage motive power unit**
 - 3.1 Features, functions and location of motive power unit and associated equipment are identified
 - 3.2 Logbook is checked to confirm serviceability of unit
 - 3.3 Preparation and safety checks are conducted in accordance with work health and safety (WHS)/occupational health and safety (OHS) and other workplace policies and procedures
 - 3.4 Motive power unit, kit and equipment are checked and defects and deficiencies recorded and rectified, isolated, tagged or reported in accordance with workplace procedures and regulatory requirements
 - 3.5 Availability of appropriate fuel, lubricating oils, water, coolant and sand quantities, as required, are checked against journey requirements and appropriate actions are taken to replenish them, as required
 - 3.6 Relevant WHS/OHS and regulatory requirements are followed
- 4 Conduct in-cab checks**
 - 4.1 Motive power unit is checked in correct sequence and all equipment is confirmed to be operating to optimum requirements
 - 4.2 Cab layout is checked and confirmed that it meets operating requirements
 - 4.3 Pre-departure mechanical checks are correctly performed, and correct functioning of equipment is confirmed in accordance with workplace procedures and manufacturer operating requirements

- 4.4 Supervisory controls and indicators are checked to ensure they are functioning correctly and appropriate actions are taken if not working correctly
- 4.5 Communication equipment is checked to ensure it is functioning correctly and appropriate actions are taken if not working correctly
- 4.6 Seat, windows, blinds, air conditioners, heaters and other personal in-cab equipment are checked and adjusted for correct functionality, safety and comfort
- 4.7 Auxiliary equipment is checked and confirmed to be operational in accordance with operating requirements
- 4.8 Fire extinguisher, emergency toolbox and other required equipment are checked to confirm they are in position and meet operational requirements
- 5 **Complete documentation**
 - 5.1 Required documentation concerning inspecting motive power unit is completed and processed in accordance with workplace procedures and regulatory requirements
 - 5.2 Logbook and other service records on the motive power unit are completed and filed in accordance with workplace procedures and regulatory requirements
- 6 **Position heritage motive power unit**
 - 6.1 Authority to move and position motive power unit is obtained and relevant personnel are advised of intention and procedures
 - 6.2 Motive power unit is operated in accordance with operational procedures and regulatory requirements, within operating and operational constraints
 - 6.3 Motive power unit is positioned in accordance with operational requirements and directions
 - 6.4 Motive power unit performance is monitored during operation to confirm effective operation or to identify defects
 - 6.5 Equipment defects are identified, reported, rectified and recorded or relevant personnel are advised for assistance
 - 6.6 Relevant WHS/OHS and regulatory requirements are followed to ensure safety and to prevent injury and damage
 - 6.7 Network control officer and other relevant personnel are advised that motive power unit is secured in required position and is ready for service

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 TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB4076A Inspect and prepare a heritage motive power unit.

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>