



**Australian Government**

# **TLIB0132 Start up and shut down a single locomotive**

**Release: 2**

# TLIB0132 Start up and shut down a single locomotive

## Modification History

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

- PC 4.3 minor terminology changes
- 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 start up and shut down a single locomotive.

It includes inspecting, preparing and starting up a single locomotive; conducting in-cab and post start-up checks; completing start-up documentation; stabling locomotive; and carrying out post-operational checks.

Locomotives may include:

- diesel locomotives
- electric locomotives
- railcars.

This work is conducted as part of operating locomotives and may be carried out by different personnel working within rail operations.

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

### PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

#### **1 Inspect and prepare locomotive**

- 1.1** Identification and location of locomotive is confirmed
- 1.2** Logbook and locomotive are checked for out of service indications and to confirm serviceability
- 1.3** Locomotive kit and equipment are checked, as required, and defects and deficiencies are recorded and rectified, isolated, tagged or reported, as required, in accordance with workplace procedures
- 1.4** Fuel, lubricating oils, water, coolant and sand equipment are checked, as required, and then replenished, as required, in accordance with manufacturer and/or workplace procedures
- 1.5** Hazards are identified, risks are assessed and control measures are implemented
- 1.6** External visual checks are conducted in accordance with manufacturer and/or workplace policies and procedures

#### **2 Start up locomotive**

- 2.1** Locomotive is started in accordance with manufacturer instructions and/or workplace procedures
- 2.2** Operating faults are identified, diagnosed, rectified and/or reported and recorded in appropriate records
- 2.3** All instruments and gauges are observed and readings are interpreted to confirm effective operation in accordance with manufacturer and/or workplace procedures
- 2.4** Fluid levels are rechecked after starting, as required, and appropriate action is taken, as required

#### **3 Conduct in-cab checks**

- 3.1** Locomotive in-cab checks are conducted in accordance with manufacturer and/or workplace policies and procedures
- 3.2** Vigilance and safety controls and indicators are checked to ensure they are functioning correctly and appropriate actions

are taken if they are not working correctly

**3.3** Communications equipment is checked to ensure it is functioning correctly and appropriate actions are taken if it is not working correctly

**3.4** Personal in-cab equipment and crew comfort requirements are checked and adjusted for correct functionality and comfort

**3.5** Auxiliary and emergency equipment is checked and confirmed to be operational in accordance with operating requirements

#### **4 Conduct post start-up checks**

**4.1** Post start-up checks are carried out to ensure locomotive is braking and powering effectively and is safe to move in accordance with manufacturer and/or workplace policies and procedures

**4.2** Communications equipment is obtained and checked, as required, to ensure it is functional

**4.3** Pantographs are raised or lowered and confirmed to be operational, if pantograph are fitted, in accordance with manufacturer instructions and/or workplace procedures

#### **5 Complete start-up documentation**

**5.1** All required documentation concerning inspecting the locomotive is completed and processed in accordance with workplace policies and procedures

**5.2** Logbook and other locomotive service records are completed and stored in accordance with workplace policies and procedures

#### **6 Stable locomotive**

**6.1** Location for stabling locomotive is identified and confirmed with appropriate personnel

**6.2** Directions of appropriate personnel are interpreted and followed as required

**6.3** Locomotive is stabled and shut down in accordance with manufacturer and/or workplace procedures

**6.4** Locomotive is secured in accordance with workplace policies and procedures

**6.5** Control equipment and cab are secured in accordance with workplace policies and procedures

**6.6** Additional protection is set in place, as required, in accordance with workplace policies and procedures

**7 Carry out post-operational checks**

- 7.1** Fuel, oil, water and sand levels are checked, as required, and then replenished, as required
- 7.2** Outcomes of post-operational checks are recorded and processed in accordance with workplace policies and 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.

**Unit Mapping Information**

This unit replaces and is equivalent to TLIB0132A Start up and shut down a single locomotive.

**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 TLIB0132 Start up and shut down a single locomotive

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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:

- adapting to differences in locomotives and associated equipment and procedures
- communicating effectively with others
- completing all pre start-up checks on a locomotive
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- modifying activities depending on operational contingencies, risk situations and environments
- reading and interpreting relevant instructions, workplace procedures and information and signs.

## 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:

- auxiliary systems on a locomotive, related equipment checks and workplace procedures
- braking and safety system procedures for a locomotive
- defects that can occur on a locomotive and related actions that should be taken
- external features of a locomotive that must be checked during a visual inspection
- functions of all supervisory indicators and controls, and related checks for correct operation
- inspection procedures for a locomotive
- lubrication requirements for a locomotive
- procedures and required protocol for operating electronic communications equipment

- purpose and location of controls, monitoring devices, braking, power source and traction systems
- relevant state/territory legislated rail safety requirements, workplace procedures, codes of practice and/or guidelines
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations.

## 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 or, where this is not available, in simulated workplace operational situations that replicate rail 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 must 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, regulations, codes of practice and operation manuals.

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