



**Australian Government**

# **TLIC3030 Operate and monitor a heritage steam locomotive**

**Release: 2**

# TLIC3030 Operate and monitor a heritage steam locomotive

## 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 operate and monitor a heritage steam locomotive in accordance with relevant workplace procedures, rail regulations and codes of practice.

It includes operating heritage steam locomotive controls, monitoring its performance and maintaining its operational condition during a journey. It also includes working collaboratively with other train crew and relevant personnel.

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 minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures when maintaining the safety and operation of a heritage steam locomotive, across a variety of operational contexts in the Australian heritage rail system.

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

Rail sector.

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### 1 Operate heritage steam locomotive

#### 2 Operate and monitor on-board equipment

#### 3 Respond effectively to external operating factors

#### 4 Work

### PERFORMANCE CRITERIA

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

**1.1** Steam locomotive handling techniques, and track and road knowledge are interpreted and applied to eliminate or minimise risk of injury to personnel or damage to equipment, rolling stock and load

**1.2** Acceleration and braking techniques are applied safely within track, road and weather conditions

**1.3** Steam locomotive and rolling stock movement between sections is monitored and vehicles are positioned safely in accordance with relevant codes of practice, systems of safeworking and related requirements

**2.1** Steam locomotive equipment is monitored and operated to maintain optimum running conditions and to identify faults, defects and deficiencies

**2.2** Appropriate actions are taken in response to identified faults, defects and deficiencies to ensure safe operation of steam locomotive, including communications with operations controller, as required

**2.3** Faults, defects and deficiencies are assessed to determine risk of damage to equipment or injury to personnel

**3.1** Instructions are verified, as required, interpreted and followed, in accordance with relevant codes of practice, rail regulatory requirements and workplace policies and procedures, to ensure actions taken are appropriate and safe

**3.2** Fixed and hand signals, and verbal movement commands are interpreted and followed, in accordance with relevant rail regulations, codes of practice and workplace policies and procedures, to ensure actions taken are appropriate and safe

**3.3** Hazardous situations are recognised and interpreted, and appropriate initiatives and actions are taken to minimise risk to personnel and equipment in accordance with workplace procedures and applicable regulatory requirements

**4.1** Safe operation and monitoring of steam locomotive is

**collaboratively**

maintained in collaboration with train crew, network control officer and relevant personnel in accordance with workplace requirements and rail resource management principles

- 4.2 Potential or actual conflicts or grievances with other train crew, network control officer and relevant personnel when operating a steam locomotive are recognised and resolved in accordance with workplace procedures and rail resource management principles
- 4.3 Regular communication is maintained with train crew, network control officer, drivers of other trains and relevant personnel when operating a steam locomotive in accordance with workplace procedures and regulatory requirements
- 4.4 Train crew, network control officer, drivers of other trains and relevant personnel are advised of operational problems, delays, safety incidents and emergency situations
- 4.5 Information provided by train crew, network control officer, drivers of other trains and other relevant personnel about the ongoing operation of steam locomotive is interpreted and applied to driving activities in accordance with workplace procedures and applicable regulatory requirements

**5 Follow all applicable rail regulatory requirements**

- 5.1 Rail regulatory requirements applicable to operating a steam locomotive and the train and track or road concerned, are accessed, clarified as required and interpreted
- 5.2 Relevant rail regulatory requirements are applied and followed when operating a steam locomotive
- 5.3 Rail resource management principles are applied in all rail operations involving a steam locomotive in accordance with workplace procedures and applicable rail regulatory requirements

**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 TLIC3030A Operate and monitor a heritage steam locomotive.

## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>