



Australian Government

TLIC0002 Operate fuel tanker

Release: 1

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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 operate a fuel tanker in accordance with the current Australian Dangerous Goods (ADG) Code, mass and loading regulations, and relevant state/territory road traffic authority vehicle licence requirements and regulations for heavy vehicles.

It includes recognising the characteristics of fuel and fuel tankers to ensure the safe transfer and transport of fuel, conducting pre-trip inspections, performing tanker loading tests and transporting load to customer site. It also includes preparing a site to accept delivery, managing delivery, completing post-delivery activities and following emergency procedures.

A fuel tanker is defined as any bulk road transport vehicle authorised to carry Class 3 flammable liquid and combustible fuel.

Fuel tankers are operated with limited or minimum supervision, and with accountability and responsibility for self and others in achieving the prescribed outcomes.

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

Pre-requisite Unit

TLILIC0001 Licence to transport dangerous goods by road

Competency Field

C – Vehicle Operation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Recognise the characteristics of fuel and fuel tankers to ensure safe transfer and transport of fuel**
 - 1.1 Properties of fuel being transported are determined in accordance with emergency response documentation
 - 1.2 Hazards associated with fuel transport are clarified in accordance with emergency response documentation
 - 1.3 Hazardous atmosphere zones are identified in accordance with organisational requirements
 - 1.4 Functions of equipment fitted to a fuel tanker are identified, including work health and safety(WHS)/occupational health and safety (OHS) and emergency response equipment
 - 1.5 Factors that cause static electricity and ways of minimising associated risks are identified in accordance with organisational requirements
 - 1.6 Switch loading is identified in accordance with industry procedures
- 2 Comply with legislative and organisational requirements for safe transfer and transport of fuel**
 - 2.1 UN number, product class, packaging group and any sub-risks of fuel being transported are identified in accordance with emergency response documentation
 - 2.2 Approved handler and approved filler requirements for fuel being transported are identified in accordance with the current ADG Code and Australian Institute of Petroleum (AIP) site requirements
- 3 Conduct pre-trip inspection**
 - 3.1 Tanker is checked for current terminal entry compliance
 - 3.2 Tanker is checked to ensure dangerous goods (DG) compliance plate is attached to tanker in accordance with current ADG Code requirements
 - 3.3 Tanker load transfer equipment is checked to confirm security and state of repair, and that all hoses are tested and tagged in accordance with current ADG Code requirements
 - 3.4 Tanker is checked to ensure safety equipment is accessible, properly maintained, and stowed and secured in accordance with current ADG Code requirements
 - 3.5 Tanker is checked to ensure personal protective equipment (PPE) is available, ready for use and meets current ADG Code requirements
 - 3.6 Tanker is checked to ensure DG placards are correct for the load and are displayed in accordance with current ADG Code

requirements

- 3.7 Fire extinguisher is checked for current date and pressure gauge
 - 3.8 Shipping documentation is checked for accuracy and availability of emergency information in accordance with current ADG Code requirements
 - 3.9 Non-compliant vehicles and equipment are reported in accordance with organisational procedures
- 4 Perform tanker loading tests**
- 4.1 Tanker is driven into loading site in accordance with site procedures
 - 4.2 Tanker is positioned to enable loading to be carried out in accordance with site procedures, without injury to people or damage to property
 - 4.3 Park brake is applied, engine is turned off and battery is isolated as required
 - 4.4 PPE is used in accordance with site and organisational procedures
 - 4.5 Transfer equipment is checked for compatibility
 - 4.6 Loading activities are controlled within level of responsibility, company regulations and legislative requirements
 - 4.7 Emergency procedures are followed in a spill or leak during loading
 - 4.8 Static control measures are applied
- 5 Transport load to customer site**
- 5.1 Routes are planned to avoid congested areas, tunnels or areas where people may congregate and to maximise efficiency between delivery sites
 - 5.2 Prescribed routes are followed in accordance with regulatory and organisational requirements, and courtesy and professionalism are exhibited toward other road users
 - 5.3 Tanker is driven and manoeuvred in accordance with legal requirements, and vehicle stability and prevailing environmental conditions are considered
 - 5.4 Eco-driving techniques are applied

- 5.5 Action is taken to deal with traffic delays and diversions
- 5.6 Legislative and organisational procedures are adhered to when driving, parking and leaving tanker standing, or when a tanker breaks down or stops on a road
- 6 Prepare site to accept delivery**
 - 6.1 Pre-delivery assessment is made before entering delivery site
 - 6.2 Site features that present a hazard and/or prevent delivery are rectified or reported in accordance with organisational requirements
 - 6.3 Site instructions and/or restrictions are complied with
 - 6.4 Tanker is manoeuvred and positioned to ensure product can be delivered safely and efficiently
 - 6.5 Park brake is applied, and engine is turned off and battery is isolated as required
 - 6.6 PPE is used in accordance with site and organisational procedures, and steps are taken to apply personal safety measures and to manage potential hazards
 - 6.7 Discharge area of delivery site is marked with signs and/or cones in accordance with workplace and state/territory legislative requirements
- 7 Manage delivery**
 - 7.1 Static control measures are applied
 - 7.2 Visible receiving vessel and/or components are checked for damage
 - 7.3 Contents of receiving vessel/s are checked to ensure sufficient ullage exists for delivery
 - 7.4 Product type and quantity are confirmed against delivery documents
 - 7.5 Gauges, valves, hoses and connections are visually checked for serviceability and leaks
 - 7.6 Vehicle and/or delivery site emergency shut down is identified and checked in accordance with workplace requirements
 - 7.7 Hoses are connected for discharging to ensure correct product is delivered into correct vessel in correct sequence

- 7.8 Product is delivered in accordance with organisational and site procedures, and special delivery instructions are observed
- 7.9 Emergency procedures are followed in a spill or leak during delivery
- 8 Complete post-delivery activities**
- 8.1 Product transfer equipment is disconnected in accordance with product type and organisational procedures
- 8.2 After-dip of tank is conducted to ensure product is in correct tanks and load has been fully delivered
- 8.3 Site is secured and restored to a clean and tidy condition in accordance with site procedures
- 8.4 Delivery documentation is completed in accordance with organisational procedures
- 8.5 Shipping documentation is amended to reflect changes in vehicle load
- 8.6 Pre-departure inspection of tanker is conducted in accordance with organisational procedures
- 8.7 Tanker is driven safely from site in accordance with site procedures
- 9 Follow emergency procedures**
- 9.1 Incident is reported to police or fire services as soon as possible
- 9.2 Incident is reported to nominated person as soon as practicable in accordance with the transport emergency response plan (TERP)
- 9.3 Reasonable assistance is provided as required by an authorised officer or officer of the emergency services to deal with the situation
- 9.4 Warnings are provided to other vehicles and persons in the vicinity who may be at risk
- 9.5 Escape of fuel is prevented or minimised
- 9.6 Incident is reported in accordance with legislative requirements or as nominated in the TERP

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.

Sites must include at least one of the following:

- customer site
- depot
- terminal

WHS/OHS equipment fitted to a fuel tanker must include:

- breakdown triangles
- chemical resistant gloves
- emergency cones
- emergency information holder
- emergency shutdown controls
- eyewash kit
- fire extinguishers
- torch

Emergency response equipment must include:

- emergency shutdown controls
- eyewash kit
- fire extinguisher
- spill kit

Documentation must include:

- emergency procedure guides
- shipping documentation
- state/ territory road rules
- TERP

Unit Mapping Information

This unit replaces but is **not** equivalent to TLIC4066A Operate fuel tanker.

Links

Companion Volume implementation guides are found in VETNet -

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