Australian Government

TLIC0003 Operate LP gas tanker

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:

- Element 6 changed to: Check site to accept delivery
- 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 a liquid petroleum (LP) gas tanker in accordance with the current Australian Dangerous Goods (ADG) Code, mass and loading regulations, and relevant state/territory road and traffic authority vehicle licence requirements and regulations for heavy vehicles.

It includes recognising the characteristics of LP gas and LP gas tankers to ensure safe transfer and transport of LP gas, conducting pre-trip inspections, supervising loading 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.

An LP gas tanker is defined as any bulk road transport vehicle authorised to carry Class 2 liquid gases.

An LP gas tanker is 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	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Recognise the characteristics of LP gas and LP gas tankers to ensure safe transfer and transport of LP gas	**1.1** Properties of LP gas being transported are identified in accordance with emergency response documentation
	1.2 Hazards associated with LP gas transport are clarified in accordance with emergency response documentation
	1.3 Hazardous atmosphere zones are determined in accordance with organisational requirements
	1.4 Functions of equipment fitted to an LP gas tanker are identified
	1.5 Factors that cause static electricity and ways of minimising associated risks are identified in accordance with organisational requirements
2 Comply with legislative and organisational requirements for safe transfer and transport of LP gas	**2.1** United Nations (UN) number, product class, packaging group and any sub-risks of LP gas being transported are identified in accordance with emergency response documentation
	2.2 Requirements for LP gas being transported are identified in accordance with the current ADG Code and legislative requirements
3 Conduct pre-trip inspection	**3.1** Tanker is checked to ensure dangerous goods (DG) compliance plate is attached to tanker in accordance with current ADG Code requirements
	3.2 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
	3.3 Tanker is checked to ensure safety equipment is accessible, properly maintained, and stowed and secured in accordance with current ADG Code requirements

	3.4	Tanker is checked to ensure personal protective equipment (PPE) is available, ready for use and meets current ADG Code requirements
	3.5	Tanker is checked to ensure DG placards are correct for load and are displayed in accordance with current ADG Code requirements
	3.6	Fire extinguisher is checked for current date and pressure gauge
	3.7	Shipping documentation is checked for accuracy and availability of emergency information in accordance with current ADG Code requirements
	3.8	Non-compliant vehicles and equipment are reported in accordance with organisational procedures
4 Supervise loading	**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
	4.7	Emergency procedures are followed in a spill or leak during loading
	4.8	Strategies to minimise risks associated with static electricity are employed in accordance with organisational requirements
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	Planned or prescribed routes are followed in accordance with regulatory and organisational requirements

	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, and courtesy and professionalism are exhibited toward other road users
	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 tanker breaks down or stops on a road
6 Check **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, 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**	Visible receiving vessel and/or components are checked for damage
	7.2	Contents of receiving vessel/s are checked to ensure sufficient ullage exists for delivery
	7.3	Product type and quantity are confirmed against delivery documents
	7.4	Pressure gauges, valves, hoses and connections are visually checked for serviceability and leaks
	7.5	Vehicle and/or delivery site emergency shutdown is identified and checked in accordance with workplace

		requirements
	7.6	Hoses are connected for discharging to ensure correct product is delivered into correct vessel in correct sequence
	7.7	Product is delivered in accordance with organisational and site procedures, and special delivery instructions are observed
	7.8	Emergency procedures are followed in the event of a leak during delivery
	7.9	Strategies to minimise risks associated with static electricity are employed in accordance with organisational requirements
8 Complete post-delivery operations	**8.1**	Product transfer equipment is disconnected in accordance with product type and organisational procedures
	8.2	Site is secured and restored to a clean and tidy condition in accordance with site procedures
	8.3	Delivery documentation is completed in accordance with organisational procedures
	8.4	Shipping documentation is amended to reflect changes in vehicle load
	8.5	Pre-departure inspection of tanker is conducted in accordance with organisational procedures
	8.6	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 transport emergency response plan (TERP)
	9.3	Reasonable assistance with load content is provided to authorised officer and emergency management supervisor (EMS)
	9.4	Warnings are provided to other vehicles and persons in the vicinity who may be at risk

9.5 Escape of gas is prevented or minimised

9.6 Incident is reported in accordance within 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.

Equipment fitted to an LP gas tanker must include:	• breakdown triangles • chemical resistant gloves • deluge system • emergency cones • emergency information holder • emergency shutdown controls • evacuation procedures • eyewash facility • fire alarm • fire extinguishers • torch
Loading and unloading sites must include at least one of the following:	• customer site • depot • terminal
Documentation must include:	• emergency procedure guides • shipping documentation • state/territory road rules • TERP

Unit Mapping Information

This unit replaces but is not equivalent to TLIC4067A Operate LP gas tanker.

Links

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