



Australian Government

TLID4049 Bottom load a dangerous goods tanker

Release: 1

TLID4049 Bottom load a dangerous goods tanker

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 bottom load a dangerous goods tanker. It includes conducting pre-loading activities, preparing for loading, bottom loading tanker and leaving loading rack.

This unit applies to those working in the road transport fuel/gas industry.

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

Pre-requisite Unit

TLIC0001 Operate chemical tanker

or

TLIC0002 Operate fuel tanker

or

TLIC0003 Operate LP gas tanker

Competency Field

D – Load Handling

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

- | | | |
|---|------------|---|
| 1 Conduct pre-loading activities | 1.1 | Documentation is submitted prior to loading and is checked for accuracy of expected load |
| | 1.2 | Loading area is checked for hazards |
| | 1.3 | HAZCHEM signage and product tumblers are checked or changed in accordance with regulatory requirements, and site and organisational procedures |
| | 1.4 | Integrity of dangerous goods is checked prior to loading, in accordance with workplace procedures |
| 2 Prepare for loading | 2.1 | Loading console instructions are followed and authorisation is gained |
| | 2.2 | Tanker equipment is prepared for loading in accordance with organisational and facility procedures |
| | 2.3 | Product and volume to be loaded are selected in accordance with loading documents |
| | 2.4 | Final check of product type and quantity to be loaded is made in accordance with delivery documentation, safe carrying capacity, and gross weight limitations of tanker |
| | 2.5 | Discrepancies are rectified in accordance with organisational procedures |
| 3 Bottom load tanker | 3.1 | Locations of emergency equipment and emergency procedures are identified before loading commences |
| | 3.2 | Vapour recovery product transfer equipment is connected in accordance with organisational requirements |
| | 3.3 | Site procedures are followed for commencement of loading process |
| | 3.4 | Tanker is safely loaded with product using only approved equipment, in accordance with organisational requirements and site procedures |
| | 3.5 | Loading process is manoeuvred at console in accordance with organisational and site procedures |
| | 3.6 | Valves on tanker and load-out facility are closed, and all transfer equipment is secured at completion of loading process in accordance with site procedures |

- 4 Leave loading rack**
- 4.1 Loaded tanker is checked to ensure it is within legal weight limitations and complies with regulatory and organisational procedures
 - 4.2 Pre-departure inspection of loaded tanker is undertaken to ensure all hoses, pipes and cables are disconnected and secured, brake interlock is deactivated, and any obstacles are cleared, in accordance with organisational procedures
 - 4.3 Tanker is slowly moved from loading area without damage to property or injury to people, in accordance with site procedures
 - 4.4 Tanker is parked in designated area and checked to ensure correct placarding
 - 4.5 Load documentation is completed, checked and secured in tanker in accordance with regulatory requirements
 - 4.6 Tanker is driven safely from site in accordance with site 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.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLID4049A Bottom load a dangerous goods tanker.

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 TLID4049 Bottom load a dangerous goods tanker

Modification History

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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:

- checking integrity of dangerous goods by checking:
 - caps
 - hatches
 - valves
- completing documentation required for bottom loading a dangerous goods tanker including:
 - dangerous goods shipping documentation, current Australian Dangerous Goods (ADG) Code
 - relevant Australian Standards and certification requirements
 - relevant internal data entry books, including logbooks, data sheets and load sheets
 - transport regulations as they apply to the enterprise, including local authority regulations and procedures
 - workplace policies and procedures
- ensuring gross weight limitation of a tanker complies with:
 - manufacturer safe fill levels and vehicle mass limits
 - National Heavy Vehicle Accreditation Scheme (NHVAS) requirements
 - state/territory legislation
 - transport emergency response plan (TERP)
- identifying and preparing product transfer tanker equipment including:
 - bonding devices
 - brake interlock
 - delivery hoses
 - external piping and fittings
 - master switch
 - pressure and ullage gauges
 - pressure vessels
 - scully systems
 - valves
 - warning devices

- identifying dangerous goods and hazardous materials
- identifying volume of goods
- making accurate estimates
- reading and interpreting complex legislative and regulatory requirements
- TERP
- using emergency equipment including:
 - emergency shutdown controls
 - evacuation controls
 - eye wash equipment and safety showers
 - fire extinguishers
 - spill control equipment
- using personal protective equipment (PPE) and safety measures including:
 - chemical resistant gloves
 - communications switch
 - high visibility clothing and safety vest
 - intrinsically safe, full cover protective clothing
 - safety headwear and footwear
 - safety glasses.

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:

- applicable legislative procedures and codes including:
 - current ADG Code
 - environmental protection legislation and regulations
 - fatigue management regulations
 - relevant state/territory roads and traffic authority driving regulations and licence or permit requirements for operating heavy vehicles on unsealed roads
 - road rules
 - work health and safety (WHS)/occupational health and safety (OHS) legislation
- control operations
- placarding requirements for parking procedures
- potential hazards when bottom loading a dangerous goods tanker
- preparation methods for tanker equipment
- relevant WHS/OHS and environmental procedures and regulations
- safe loading procedures.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Practical assessment must be in an appropriate vehicle such as:

- AB-Quad
- B-Double combinations
- B-Triple
- rigid vehicle
- road train combinations
- semi combinations
- truck and dog combinations.

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 include:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry
- vehicle as listed above.

Online assessment is not suitable for final assessment of this unit of competency.

Links

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