



Australian Government

Department of Education, Employment and Workplace Relations

TLID4048A Top load a dangerous goods tanker

Release: 1

TLID4048A Top load a dangerous goods tanker

Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to top load a tanker carrying liquid dangerous goods.

Licensing, legislative, regulatory and certification requirements are applicable to this unit.

Application of the Unit

This unit applies to those working in the road transport industry who transport petroleum products.

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Prerequisite Unit TLIC4065A Operate chemical tanker (or)
TLIC4066A Operate fuel tanker (or)
TLIC4067A Operate LP gas tanker

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT PERFORMANCE CRITERIA

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| 1 Top load vehicle | <p>1.1 Determine prior load and follow prescribed switch load procedures</p> <p>1.2 Product type and quantity to be loaded are checked to determine whether they are in accordance with delivery documentation and are within the safe carrying capacity and gross weight limitations of the vehicle</p> <p>1.3 Discrepancies are rectified in accordance with company procedures</p> <p>1.4 Locations of emergency equipment and emergency procedures are identified before loading commences</p> <p>1.5 Personal protective equipment (PPE) is identified and worn according to regulatory and site requirements</p> <p>1.6 Vehicle is checked to ensure it is correctly placarded for the product to be loaded</p> <p>1.7 Product transfer equipment is connected and bonded in accordance with organisational and site procedures</p> <p>1.8 Site procedures are followed for commencement of the loading process</p> <p>1.9 Vehicle is safely loaded with product using only approved equipment and in accordance with organisational requirements and site procedures</p> <p>1.10 Loading process and fill levels are monitored by the driver in accordance with company and site procedures</p> <p>1.11 At the completion of the loading process, all valves on the vehicle and load-out facility are closed, and all transfer equipment is secured in accordance with site procedures</p> <p>1.12 Loaded vehicle is checked to be within legal weight limitations and compliant with regulatory requirements and company procedures</p> <p>1.13 Pre-departure inspection of the loaded vehicle is undertaken to ensure hoses, pipes and cables are disconnected and secure, brake interlock is deactivated, and any obstacles cleared in accordance with company procedures</p> <p>1.14 Site is restored to a clean and tidy condition in accordance with site procedures</p> <p>1.15 Vehicle is moved from the loading area without damage to property or injury to people and in accordance with site procedures</p> |
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2 Work at heights on a dangerous goods tanker

2.1 Prior to ascending or descending the vehicle ladders, required fall restraint safety equipment is connected to the vehicle in accordance with safety regulations and site procedures

2.2 When operating on top of vehicle, all fall restraint safety equipment is connected in accordance with site and safety regulations

3 Complete load documentation

3.1 Pre-load documentation is submitted prior to loading and checked for accuracy of expected load

3.2 Shipping documentation is completed, checked and secured in the vehicle in accordance with organisational and legislative requirements at the completion of the load

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required knowledge:

- Potential hazards
- Safe loading procedures
- Placarding requirements for dangerous goods carrying vehicles
- Preparation methods for tanker equipment
- Static electricity control practices
- Working at heights controls and safe methods
- Switch loading procedures

Required skills:

- Identify product and volume of goods
- Identify dangerous goods and hazardous materials
- Coupling and de-coupling methods for top loading a bulk liquid tanker
- Identify and prepare tanker equipment
- Apply manual handling practices

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment section in Section B of the accreditation submission.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of:
 - safely top loading a dangerous goods tanker and completing documentation
 - demonstrating knowledge of control operation
 - applying correct methods for ascending and descending a tanker ladder
 - completing the documentation required for top loading a dangerous goods tanker

Context of and specific resources for assessment

- Assessment must ensure access to:
 - tools, equipment and PPE currently used in industry
 - relevant regulatory and equipment
 - documentation that impacts on work activities

Method of assessment

- Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended
- In all cases where practical assessment is used it will be combined with targeted questioning to assess required knowledge
- Assessment processes and techniques must be appropriate to the language and literacy capacity of the candidate and the work being performed
- Online assessment is not suitable for final assessment of this unit of competency

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Integrity of dangerous goods is checked by:

- valves
- caps
- hatches

Gross weight limitation of a tanker complies with:

- state and territory legislation
- National Heavy Vehicle Accreditation Scheme (NHVAS) requirements
- manufacturer's safe fill levels and vehicle mass limits

Product transfer equipment includes:

- delivery hoses
- overfill protection systems
- external piping and fittings
- bonding devices
- valves
- warning devices
- brake interlock

Tanker classes include:

- rigid vehicle
- truck and dog combinations
- semi combinations
- B-Double combinations
- road train combinations

PPE and safety measures include:

- chemical resistant gloves
- safety headwear and footwear
- safety glasses
- intrinsically safe, full cover protective clothing
- high visibility clothing and safety vest
- evacuation controls

Emergency equipment includes:

- emergency shutdown controls
- spill control equipment
- eye wash equipment and safety showers
- fire extinguishers

Documentation and records include:

- dangerous goods shipping documentation, as per the current Australian Dangerous Goods (ADG) Code
- transport regulations as they apply to the enterprise, including local authority regulations and procedures
- relevant Australian standards and certification requirements

Applicable legislative procedures and codes include:

- workplace policies and procedures
- relevant internal data entry books, including log books, data sheets and load sheets
- transport emergency response plan (TERP)
- Australian code for the transport of dangerous goods by road or rail: the ADG Code
- relevant state and territory:
 - roads and traffic authority driving regulations and licence or permit requirements pertaining to operating heavy vehicles on unsealed roads
 - road rules
 - OH&S legislation
 - fatigue management regulations
 - environmental protection legislation and regulations

Unit Sector(s)

Not applicable.

Competency Field

D – Load Handling