



Australian Government

Department of Education, Employment and Workplace Relations

TLID4049A Bottom load a dangerous goods tanker

Release: 1

TLID4049A Bottom load a dangerous goods tanker

Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to bottom load a dangerous goods tanker. Licensing, legislative, regulatory and certification requirements are applicable to this unit.

Application of the Unit

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

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

1 Conduct pre-loading activities	1.1 Documentation is submitted prior to loading and 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 for compliance with delivery documentation, safe carrying capacity, and gross weight limitations of the tanker 2.5 Any 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 the loading process 3.4 Tanker is safely loaded with product using only approved equipment and 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 the tanker and load-out facility are closed and all transfer equipment is secured at the completion of the loading process in accordance with site procedures

4 Leave the 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 the loading area without damage to property or injury to people and in accordance with site procedures

4.4 Tanker is parked in the designated area and checked to ensure correct placarding

4.5 Load documentation is completed, checked and secured in the tanker in accordance with regulatory requirements

4.6 Tanker is driven safely from site in accordance with site procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required knowledge:

- Road rules, regulations, permit and licence requirements of the relevant state and territory roads and traffic authority
- Relevant OH&S and environmental procedures and regulations
- Potential hazards
- Safe loading procedures
- Placarding requirements for parking procedures
- Preparation methods for tanker equipment

Required skills:

- Identify volume of goods
- Make accurate estimates in a range of situations
- Identify dangerous goods and hazardous materials
- Reading complex legislative and regulatory requirements
- Apply de-coupling method for bottom loader tanker
- Identify and prepare tanker equipment

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:
 - knowledge of control operations
 - bottom loading a dangerous goods tanker
 - coupling and de-coupling a dangerous goods tanker

Context of and specific resources for assessment

- Assessment must ensure access to:
 - tools, equipment and personal protective equipment (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. Bold italicised wording in the Performance Criteria is detailed below. 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 involves checking:	• valves • caps • hatches
Gross weight limitation of a tanker complies with:	• National Heavy Vehicle Accreditation Scheme (NHVAS) • manufacturer's safe load limit
Product transfer equipment includes:	• delivery hoses • scully systems • external piping and fittings • bonding devices • pressure vessels • master switch • valves • warning devices • brake interlock • pressure and ullage gauges
Tanker classes include:	• B-Double • B-Triple • AB-Quad
Personal safety measures include:	• gloves • safety headwear and footwear • safety glasses • two-way radios • protective clothing • high visibility clothing • eye wash kit
Emergency equipment includes:	• emergency shutdown controls • evacuation controls
Documentation and records include:	• transport regulations as they apply to the enterprise, including local authority regulations and procedures • workplace policies and procedures • relevant Australian standards and certification requirements • relevant internal data entry books, including log books, data sheets and load sheets

Applicable legislative procedures and codes include:

- transport emergency response plan (TERP)
- Australian code for the transport of dangerous goods by road or rail: the current Australian Dangerous Goods (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