



Australian Government

TLID3024 Use specialised liquid bulk transfer equipment (gravity/pressurised)

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 use specialised gravity and pressurised liquid bulk transfer equipment in accordance with the current Australian Dangerous Goods (ADG) Code and relevant state/territory regulations.

It includes planning work, transferring liquid bulk in accordance with regulatory and operational requirements, monitoring and operating controls, and completing all operations, as required.

Work is performed under general supervision.

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

Pre-requisite Unit

Not applicable.

Competency Field

D – Load Handling

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan work

PERFORMANCE CRITERIA

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

1.1 Liquid transfer method is identified for loading and unloading as gravity or pressure

1.2 Job hazards are identified and required action is taken to

minimise, control or eliminate identified hazards

- 1.3 Dangerous or hazardous (including regulated waste) or other materials requiring specialised handling are identified and relevant workplace procedures are taken into account when planning work
- 1.4 Precautions are undertaken to eliminate all ignition sources
- 1.5 Traffic flow, vehicle positioning and work area conditions are assessed to ensure safe operation and no injury to people, or damage to equipment, loads or facilities
- 1.6 Characteristics of liquid, transfer and holding method are taken into account when evaluating procedural requirements, special precautions for method, equipment and, as required, appropriate attachments to transfer load
- 1.7 Potential occurrences in work area that may affect safety and efficiency of operations are reported to appropriate personnel
- 1.8 Liquid transfer is planned, taking into account requirements of load, transfer method, storage facility, transport mode, load weight, volume, viscosity and equipment capacity
- 1.9 Load is checked prior to and at completion of transfer to ensure ullage and/or maximum permitted capacity complies with current ADG Code
- 1.10 Adjustments are made to process to accommodate special requirements such as temperature control and combustion
- 1.11 Required personal protective equipment, signage, barriers and special precautions are identified in plan and utilised
- 1.12 Procedures to deal with spills, leakages and ruptures are identified

2 Transfer material

- 2.1 Equipment is prepared and appropriate attachments are fitted
- 2.2 Equipment controls are checked for correct operational status before commencing transfer
- 2.3 Instruments and gauges are monitored during operations to ensure operation is in accordance with manufacturer specifications, workplace schedule and safety requirements
- 2.4 Speed of operation is managed for safety and efficiency of materials movement and equipment operations

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|---------------------------------------|-----|---|
| | 2.5 | Faults or damage to equipment are immediately reported to appropriate personnel |
| 3 Monitor and operate controls | 3.1 | Equipment controls are monitored and operated in accordance with manufacturer operating instructions |
| | 3.2 | Control systems are monitored in accordance with statutory authority regulations, manufacturer guidelines and site operating procedures |
| | 3.3 | Materials are moved without injury to personnel or damage to equipment or goods |
| | 3.4 | Faults are identified and reported in accordance with workplace procedures |
| 4 Complete operations | 4.1 | Equipment is shut down in accordance with manufacturer guidelines without injury to personnel or damage to equipment, loads or facilities in accordance with workplace procedures |
| | 4.2 | Clean up methods for transfer equipment are completed in accordance with workplace procedures |
| | 4.3 | Equipment is secured in accordance with securing procedures for appropriate equipment |
| | 4.4 | Workplace documentation is completed and filed in accordance with workplace 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 TLID3024A Use specialised liquid bulk transfer equipment (gravity/pressurised).

Links

Companion Volume implementation guides are found in VETNet -

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