



Australian Government

Department of Education, Employment and Workplace Relations

TLID2107C Use specialised bulk transfer equipment (dry)

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to use specialised bulk transfer equipment for dry materials, including planning the work, transferring the material according to regulatory and operational requirements, monitoring and operating controls, and completing all operations, as required.

Application of the Unit

Work must be carried out in compliance with the relevant state/territory regulations concerning the use of specialised equipment for the transfer of dry bulk product. Work is performed under general supervision. It involves the application of basic principles, routine procedures and regulatory requirements to the use of specialised bulk transfer equipment to load and unload dry bulk products.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this competency is packaged will assist in identifying employability skill requirements.

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

Elements and Performance Criteria

Element	Performance Criteria
1 Plan work	1.1 Dangerous or hazardous (including regulated waste), or other materials requiring specialised handling are identified and relevant procedures are taken into account when planning the work 1.2 Traffic flow and work area conditions are assessed and anticipated to ensure safe operation and no injury to people, or damage to equipment, loads, facilities or environment 1.3 Characteristics of the load are taken into account when selecting method, equipment and, where applicable, appropriate attachments to transfer the load 1.4 Any potential occurrences in the work area that may affect the safety and efficiency of operations are reported to the appropriate personnel 1.5 Bulk transfer of dry materials is planned, taking into account the requirements of the load, transfer method, storage facility and transport mode, load weight and dimensions and the capacity of the equipment 1.6 Required personal safety equipment, signage, barriers and special precautions are identified in the plan and utilised 1.7 Procedures to deal with spills, leakages and ruptures are identified 1.8 Customer requests for variation to agreed operations are actioned within scope of authority or referred to appropriate personnel
2 Transfer material	2.1 Equipment is prepared and any appropriate attachment fitted 2.2 Equipment controls are checked for correct operational status before commencing transfer 2.3 Adjustments are made to process to accommodate special requirements such as temperature control,

combustion etc.

2.4 Instruments and gauges are monitored during operations to ensure that operation is consistent with workplace procedures, manufacturers specifications and enterprise schedule and safety requirements

2.5 Speed of operation is managed for safety and efficiency of materials movement and equipment operations

2.6 Any faults or damage to equipment are immediately reported to the appropriate personnel

3 Monitor and operate controls

3.1 Equipment controls are monitored and operated in accordance with manufacturers operating instructions

3.2 Control systems are monitored to ensure that operation is consistent with workplace procedures, manufacturers specifications, workplace schedule, safety requirements and statutory regulations

3.3 Materials are moved ensuring no injury to personnel or damage to equipment or goods

3.4 Faults are identified and reported in accordance with enterprise guidelines

4 Complete operations

4.1 Equipment is shut down within manufacturers guidelines without injury to personnel or damage to equipment, loads or facilities in accordance with enterprise procedures]

4.2 Clean up methods for transfer equipment are completed following workplace procedures

4.3 Equipment is secured in accordance with securing procedures for the appropriate equipment

4.4 Workplace documentation is completed and filed following workplace procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

Australian Dangerous Goods Code and relevant state/territory mass and loading regulations as they apply to vehicles transporting dry bulk product

OH&S procedures and guidelines concerning the use of specialised bulk transfer equipment

Risks when transferring dry bulk product and related precautions to control the risk

Workplace procedures and policies for the efficient use of specialised equipment to transfer dry bulk loads

Housekeeping standards procedures required in the workplace

Methods of securing a vehicle following transfer of dry bulk product

Relevant regulatory, permit and licence requirements including ADG Code

Required skills:

Communicate effectively with others when using specialised equipment to transfer dry bulk product

Read and interpret instructions, procedures, information and signs relevant to the transfer of dry bulk product using specialised equipment

Identify goods coding, IMDG markings and, where applicable, emergency information panels

Interpret and follow operational instructions and prioritise work

Complete documentation related to the transfer of dry bulk product using specialised equipment

Operate electronic communication equipment to required protocol

Estimate the mass, volume and special requirements of dry bulk products

Work collaboratively with others when using specialised equipment to transfer dry bulk product

Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others

Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when using specialised equipment to transfer dry bulk product in accordance with regulatory requirements and workplace procedures

Implement contingency plans for unexpected events when using specialised equipment to transfer dry bulk product

Apply precautions and required action to minimise, control or eliminate hazards that may exist during the transfer of dry bulk product using specialised equipment

Monitor work activities in terms of planned schedule

Modify activities depending on differing operational contingencies, risk situations and environments

Work systematically with required attention to detail without injury to self or others, or damage to product or equipment

Operate and adapt to differences in equipment in accordance with standard operating procedures

Identify and correctly use equipment required to transfer dry bulk product

Monitor performance of equipment

Service equipment in terms of maintenance schedule and standard operating procedures

Select and use required personal protective equipment conforming to industry and OH&S standards

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

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 applying:

the underpinning knowledge and skills

relevant legislation and workplace procedures

other relevant aspects of the range statement

Context of and specific resources for assessment

Performance is demonstrated consistently over a period of time and in a suitable range of contexts

Resources for assessment include:

a range of relevant exercises, case studies and other simulated practical and knowledge assessment, and/or

access to an appropriate range of relevant operational situations in the workplace

In both real and simulated environments, access is required to:

relevant and appropriate materials and/or equipment, and/or

applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

Assessment of this unit must be undertaken by a registered training organisation

As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests

Practical assessment must occur:

through appropriately simulated activities at

the registered training organisation, and/or
in an appropriate range of situations in the
workplace

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.

Operations may be conducted:	in a range of work environments by day or night
Customers may be:	internal or external
Workplaces may comprise:	large, medium or small worksites
Work may be conducted in:	restricted spaces exposed conditions controlled or open environments
Dry bulk product to be transferred may require:	special precautions
Hazards in the work area may include exposure to:	hazardous or dangerous materials contamination of, or from, materials being handled noise, light, energy sources stationary and moving machinery, parts or components service lines spills, leakages, ruptures dust/vapours
Personal protective equipment may include:	gloves safety headwear and footwear safety glasses mask or respirator high visibility clothing
Hazard management is:	consistent with the principle of hierarchy of control with elimination, substitution, isolation and engineering control measures being selected before safe working practices and personal protective equipment

Exposure during work operations may be to:	corrosive chemicals solvents and adhesives toxic, explosive and other harmful substances movement of equipment, goods, vehicles
Regulatory controls and enterprise procedures may govern requirements for:	transport storage volume mass required controls
Relevant transfer systems may include:	ducted conveyor mobile plant pipelines elevators augers
Requirements for work may include:	site restrictions and procedures use of safety and personal protective equipment communications equipment specialised lifting and/or handling equipment incident breakdown procedures additional gear and equipment noise restrictions hours of operation authorities and permits
Consultative processes may involve:	other employees and supervisors suppliers, potential customers and existing clients management and union representatives industrial relations, OH&S specialists, and other maintenance, professional or technical staff

Communication in the work area may include:

phone
electronic data interchange
fax
email
internet
radio
oral, aural or signed communications

Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:

company procedures
enterprise procedures
organisational procedures
established procedures
site procedures

Information/documents may include:

Safe Working Load (SWL) and Working Load Limit (WLL)
manifests, bar codes, goods and product identification
manufacturers specifications for equipment/tools
workplace procedures and policies for the transfer of dry bulk product
supplier and/or client instructions
material safety data sheets
codes of practice including the National Standards for Manual Handling and the Industry Safety Code
award, enterprise bargaining agreement, other industrial arrangements
relevant standards and certification requirements
quality assurance procedures
emergency procedures

Applicable regulations and legislation may include:

state/territory mass and loading regulations
Australian regulations relevant to the transfer of dry bulk product
Australian and international regulations and codes of practice for the handling and

transport of dangerous goods and hazardous substances, including:

Australian and International Dangerous Goods Codes

Australian Marine Orders and the International Maritime Dangerous Goods Code

IATA Dangerous Goods by Air regulations

relevant state/territory environmental protection legislation

relevant state/territory OH&S legislation

Unit Sector(s)

Not applicable.

Competency Field

D - Load Handling