



Australian Government

Department of Education, Employment and Workplace Relations

TLID1607D Load and unload explosives and dangerous goods

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to load and unload explosives and dangerous goods, including identifying explosives/dangerous goods; loading and unloading explosives/dangerous goods using appropriate equipment; securing and protecting the vehicle load; and checking the vehicle to ensure the load is secure and the vehicle is marked in accordance with regulatory requirements. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

Work must be carried out in compliance with the relevant Australian and state/territory regulations including the current Australian Dangerous Goods (ADG) Code, the current Australian Explosives (AE) Code, and mass and loading regulations.

Work is performed under limited or minimum supervision. It involves the application of the basic principles, routine procedures and specific regulatory requirements to the loading and unloading of explosives and dangerous goods in a range of operational situations.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not applicable.

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

Elements and Performance Criteria

Element	Performance Criteria
1 Prepare to load and unload vehicle	1.1 Explosives and/or dangerous goods are identified and their characteristics taken into account when determining appropriate handling, loading and storage procedures including confirmation that the relevant emergency procedures are being carried out 1.2 Compatibility of explosives and/or dangerous goods is taken into account when assembling and segregating cargo for loading 1.3 Vehicle and/or loading equipment is checked to ensure it is suitable to handle/carry load
2 Load/unload vehicle	2.1 Vehicle is loaded/unloaded in accordance with workplace procedures and the current ADG/Australian Explosives Code as applicable 2.2 The load is segregated according to class and subsidiary risk, and the distribution of the load is checked in accordance with workplace procedures, relevant mass and loading regulations and the current ADG/Australian Explosives Code as applicable 2.3 Personal protective equipment is used during the loading/unloading operations as required for the type of dangerous goods/explosive concerned 2.4 Emergency procedures are followed in the event of an incident or accident when loading or unloading explosives and/or dangerous goods 2.5 Emergency procedures are followed in the event of a safety incident or accident when loading dangerous goods or explosives
3 Secure and protect vehicle load	3.1 The vehicle load is secured using the correct load restraint and protection equipment for different loads, vehicles and carriage conditions concerned 3.2 The load is protected in accordance with legal and workplace safety requirements

- 3.3 The distribution of the load is checked to ensure that it is even, legal and within the safe working capacity of the vehicle
 - 3.4 Vehicle is clearly marked/placarded to indicate the carriage of explosives and/or dangerous goods, in accordance with government regulations and company procedures
- 4 **Check the vehicle**
 - 4.1 The loaded vehicle is inspected and checked to ensure that it is suitable to carry explosives and/or dangerous goods and the load weight and dimensions are within the vehicle's safe carrying capacity and equipment capability
 - 4.2 The loaded vehicle is checked to ensure that it can be safely parked and secured
 - 4.3 Dangerous goods declaration and all required transportation documentation for the cargo is completed in accordance with workplace requirements

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

Relevant Australian and state/territory regulations and codes pertaining to the identification, handling and marking of explosives and dangerous goods

Relevant state/territory mass and loading regulations

OH&S procedures and guidelines concerning the lifting and movement of loads

Risks and hazards when loading, unloading and handling explosives and dangerous goods, and related precautions to control the risk

Workplace procedures and policies for the loading and unloading of explosives and dangerous goods

Characteristics of various classes of explosives and dangerous goods relevant to handling and transport

Compatibility of various types of explosives and dangerous goods

Housekeeping standards procedures required in the workplace

Manual handling techniques and manually-operated load shifting equipment required for the loading, unloading and handling of explosives and dangerous goods

Methods of securing a load on a vehicle

Methods of placarding or marking a vehicle carrying explosives/dangerous goods

Required skills:

Communicate effectively with others when loading, unloading and handling explosives and dangerous goods

Read and interpret instructions, procedures, information and signs relevant to the loading, unloading and handling of explosives and dangerous goods

Identify and interpret containers and goods coding, markings and, where applicable, emergency information panels for the mode of transport/storage selected

Interpret and follow operational instructions and prioritise work

Complete documentation related to work activities

Operate electronic communication equipment to required protocol

Estimate the size, shape and special requirements of loads

Work collaboratively with others when loading, unloading and handling explosives and dangerous goods

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 in accordance with regulatory requirements and workplace procedures

Implement contingency plans for unexpected events when loading, unloading and handling explosives and dangerous goods

Apply precautions and required action to minimise, control or eliminate hazards that may exist during the loading, unloading and handling of explosives and dangerous goods

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 goods or equipment

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

Use manual handling techniques and operate manually-operated load shifting equipment when loading, unloading and handling explosives and dangerous goods

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:

identifying load characteristics, loading equipment and related practices

identifying load label in accordance with identified classification and subsidiary risk information

identifying markings/placards for vehicle in accordance with relevant regulatory requirements

segregating, distributing and securing load for safe transport in accordance with regulations and current ADG/AE Code requirements

safely loading and unloading explosives and dangerous goods in accordance with workplace procedures and current ADG/AE Code requirements

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 and weather conditions by day or night
Customers may be:	internal or external
Workplaces may comprise:	large, medium or small worksites
Work may be conducted in:	limited and restricted spaces exposed conditions controlled or open environments a workplace, warehouse or depot in a vehicle on the road at a client's workplace
Goods/cargo to be loaded and unloaded may require:	special precautions for handling and stacking
Classes of dangerous goods and explosives are:	as defined in the respective Australian codes
Standard placarding, marking and signage for identified explosives and dangerous goods are:	as required in the respective Australian codes, including HAZCHEM Codes
Personnel in the work area may include:	workplace personnel site visitors contractors official representatives
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
Loading operations may be carried out:	manually with the aid of lifting equipment and/or appliances
Load restraint procedures and equipment are:	as specified in mass and loading regulations and guidelines and current ADG Code/Australian Explosives Code as applicable
Personal protective equipment may include:	gloves safety headwear and footwear safety glasses two-way radios high visibility clothing
Information/documents may include:	goods identification numbers and codes, including current ADG Code and International Maritime Dangerous Goods (IMDG) markings and HAZCHEM signs relevant codes of practice, including the Australian Dangerous Goods Code, the Australian Explosives Code, the Industry Safety Code, and National Standards for Manual Handling manifests, bar codes, goods and container identification/serial number material safety data sheets manufacturers specifications for equipment/tools workplace procedures and policies for the loading and unloading of vehicles supplier and/or client instructions National Load Restraint Guide Australian Truck Drivers Manual

Applicable regulations and legislation may include:

award, enterprise bargaining agreement,
other industrial arrangements

standards and certification requirements

quality assurance procedures

emergency procedures

Australian and state/territory mass and
loading regulations

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

International Air Transport Association
(IATA) Dangerous Goods by Air regulations

Australian and International Explosives
Codes

Code of Practice for the Safe Transport of
Radioactive Substances

state/territory legislation covering the safe
handling of infectious substances

relevant state/territory environmental
protection legislation

workplace relations regulations

equal opportunity legislation

equal employment opportunity and
affirmative action legislation

relevant state/territory OH&S legislation

Unit Sector(s)

Not applicable.

Competency Field

D - Load Handling