



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **TLID3027A Prepare for transport of dangerous goods**

**Release: 1**

## **TLID3027A Prepare for transport of dangerous goods**

### **Modification History**

Not Applicable

### **Unit Descriptor**

#### **Unit Descriptor**

This unit involves the skills and knowledge required to prepare for the transport of dangerous goods, including checking the dangerous goods load; assessing vehicle suitability to transport the intended load; checking emergency procedures and equipment; evaluating documented route plan; and completing required assessment process. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

### **Application of the Unit**

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Work must be carried out in compliance with the relevant state/territory regulations concerning the transport of dangerous goods, including the current ADG Code.

Work is performed under general supervision. It involves the application of basic principles, routine procedures and regulatory requirements to the preparation of dangerous goods for transport.

### **Licensing/Regulatory Information**

Refer to Unit Descriptor

### **Pre-Requisites**

Not Applicable

## **Employability Skills Information**

**Employability Skills**                      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
<b>1 Check dangerous goods load</b>	<ul style="list-style-type: none"><li>1.1 Load is compared against transport documentation and discrepancies are noted</li><li>1.2 Load is checked to ensure that dangerous goods labels are clearly visible and legible, and that packaged goods are correctly labelled</li><li>1.3 Load is checked to ensure containers are not damaged</li><li>1.4 Vehicle load is checked for compatibility or, where not compatible, is checked for appropriate segregation in accordance with regulatory requirements</li><li>1.5 Load is assessed to ensure that it is stowed and secured in or on vehicles in accordance with the current ADG Code and the National Load Restraint Guide</li><li>1.6 Shipping documentation and other relevant documents are located in the cabin in accordance with regulatory requirements</li></ul>
<b>2 Assess vehicle suitability to transport intended load</b>	<ul style="list-style-type: none"><li>2.1 Vehicle is assessed for suitability and appropriateness to carry designated dangerous goods including classification, mass and configuration</li><li>2.2 Licence and insurance requirements (where relevant) are checked for conformity with the current Australian Code for the Transport of Dangerous Goods by Road and Rail and/or other applicable regulatory requirements</li><li>2.3 Load restraint system(s) is/are checked for serviceability and appropriateness to secure intended load</li><li>2.4 Vehicle is checked to ensure that it is correctly and clearly marked/placarded for the load being carried</li></ul>
<b>3 Check emergency procedures and equipment</b>	<ul style="list-style-type: none"><li>3.1 Emergency information for each type of transported dangerous good is noted</li><li>3.2 Regulatory and workplace procedures for an incident are noted including notification of relevant personnel and authorities and, where appropriate, use of equipment for containment, clean up or recovery</li><li>3.3 Personal protective equipment and safety equipment are checked for operational capability and appropriateness to the proposed load</li><li>3.4 Emergency information is located in the cabin in accordance with current ADG Code requirements</li></ul>
<b>4 Evaluate documented route plan</b>	<ul style="list-style-type: none"><li>4.1 Selected route plan and potential difficulties including regulatory restrictions, traffic flow and conditions, obstacles, road standards and construction activities are assessed</li><li>4.2 Regulatory and workplace procedures for driving, parking, loading and unloading are identified including actions for</li></ul>

ELEMENT	PERFORMANCE CRITERIA
<b>5 Complete documentation</b>	disengaging and/or securing the vehicle
	5.1 The load is inspected and checked for security to travel in accordance with relevant regulations/permit requirements and the current ADG Code
	5.2 All required documentation for the dangerous goods is completed in accordance with regulatory and 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:

- Current Australian Dangerous Goods Code and relevant state/territory mass and loading regulations as they apply to vehicles transporting dangerous goods
- OH&S procedures and guidelines concerning the transport of dangerous goods
- Risks when transporting dangerous goods and related precautions to control the risk
- Workplace procedures and policies for the preparation of dangerous goods
- Problems that may occur when preparing for the transport of dangerous goods and action that should be taken to prevent or solve them
- Housekeeping standards procedures required in the workplace
- Methods of securing a vehicle following loading of dangerous goods
- Relevant permit and licence requirements

#### Required skills:

- Communicate effectively with others when preparing for the transport dangerous goods
- Read and interpret instructions, procedures, information and signs relevant to the preparation of dangerous goods for transport
- Identify 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 the preparation of dangerous goods for transport
- Operate electronic communication equipment to required protocol
- Estimate the mass, volume and special requirements of a load
- Work collaboratively with others when preparing for the transport of dangerous goods

**Required skills:**

- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any identified problems that may occur when preparing for the transport of dangerous goods in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unexpected events that may arise when preparing for the transport of dangerous goods
- Recognise the hazards and apply precautions and required action to minimise, control or eliminate hazards that may exist during the preparation of dangerous goods for transport
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Apply fatigue management knowledge and techniques
- 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
- Identify and correctly use equipment required to load dangerous goods
- Select and use required personal protective equipment conforming to industry and OH&S standards

**Evidence Guide****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:
  - assessing operational suitability of equipment and vehicles pertinent to dangerous goods transportation
  - estimating weight and dimensions of load and any special requirements
  - applying hierarchy of hazard control
  - maintaining workplace records and documentation including completion of dangerous goods declaration

## EVIDENCE GUIDE

- determining (any) required permits
  - identifying hazards and planning work to minimise risks when transporting dangerous goods
  - selecting appropriate equipment and work systems to enable safe, efficient work
- 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/or 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 equipment, and
    - 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 activities in an appropriately simulated environment 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

## RANGE STATEMENT

Workplaces may comprise:	<ul style="list-style-type: none"><li>• large, medium or small worksites</li></ul>
Work may be conducted in:	<ul style="list-style-type: none"><li>• restricted spaces</li><li>• exposed conditions</li><li>• controlled or open environments</li></ul>
Vehicle refers to:	<ul style="list-style-type: none"><li>• all applicable transportation modes</li></ul>
Hazards in the work area may include exposure to:	<ul style="list-style-type: none"><li>• hazardous or dangerous materials</li><li>• contamination of, or from, materials being handled</li><li>• noise, light, energy sources</li><li>• stationary and moving machinery, parts or components</li><li>• service lines</li><li>• spills, leakages, ruptures</li><li>• dust/vapours</li></ul>
Hazard management is:	<ul style="list-style-type: none"><li>• 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</li></ul>
Personal protective equipment may include:	<ul style="list-style-type: none"><li>• gloves</li><li>• safety headwear and footwear</li><li>• safety glasses</li><li>• mask or respirator</li><li>• breathing apparatus</li><li>• high visibility clothing</li></ul>
Load restraint systems are:	<ul style="list-style-type: none"><li>• as detailed in the National Load Restraint Guide</li></ul>
Preparation of packaged dangerous goods for transport may:	<ul style="list-style-type: none"><li>• require special precautions as specified by the manufacturer</li></ul>
Transport documentation may include:	<ul style="list-style-type: none"><li>• Initial Emergency Response Guide</li><li>• Emergency Procedure Guide</li><li>• Material Safety Data Sheet (MSDS)</li><li>• descriptions for dangerous goods (i.e. proper shipping name, class and division number, packing group, subsidiary risk(s) if any)</li><li>• UN or ID number</li></ul>
Requirements for work may include:	<ul style="list-style-type: none"><li>• site restrictions and procedures</li><li>• use of safety and personal protective equipment</li><li>• communications equipment</li><li>• specialised lifting and/or handling equipment</li><li>• incident breakdown procedures</li></ul>

## RANGE STATEMENT

	<ul style="list-style-type: none"><li>• additional gear and equipment</li><li>• noise restrictions</li><li>• hours of operation</li><li>• authorities and permits</li></ul>
Consultative processes may involve:	<ul style="list-style-type: none"><li>• other employees and supervisors</li><li>• suppliers, potential customers and existing clients</li><li>• management and union representatives</li><li>• industrial relations, OH&amp;S specialists, and other maintenance, professional or technical staff</li></ul>
Communication in the work area may include:	<ul style="list-style-type: none"><li>• phone</li><li>• electronic data interchange</li><li>• fax</li><li>• email</li><li>• internet</li><li>• radio</li><li>• oral, aural or signed communications</li></ul>
Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:	<ul style="list-style-type: none"><li>• company procedures</li><li>• enterprise procedures</li><li>• organisational procedures</li><li>• established procedures</li><li>• site procedures</li></ul>
Safety equipment on vehicle may include:	<ul style="list-style-type: none"><li>• fire extinguishers</li><li>• portable warning devices</li><li>• eye wash kit</li></ul>
Information/documents may include:	<ul style="list-style-type: none"><li>• current Australian Dangerous Goods Code, relevant Australian Standards and International Standards</li><li>• Safe Working Load (SWL) and Working Load Limit (WLL)</li><li>• manifests, bar codes, goods and product identification</li><li>• manufacturers specifications for equipment/tools</li><li>• workplace procedures and policies for the transfer of product</li><li>• goods identification numbers, codes and signs</li><li>• supplier and/or client instructions</li><li>• award, enterprise bargaining agreement, other industrial arrangements</li><li>• relevant standards and certification requirements</li><li>• quality assurance procedures</li><li>• emergency procedures</li><li>• manufacturers specifications, instructions and labelling advice for the packaged dangerous goods, including</li></ul>

## RANGE STATEMENT

Applicable regulations and legislation may include:

- material safety data sheets
- state/territory mass and loading regulations
- current 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 state/territory regulations related to the carriage of dangerous goods
- workplace relations regulations
- equal opportunity legislation
- equal employment opportunity and affirmative action legislation
- relevant Australian and International Standards
- relevant state/territory environmental protection legislation
- relevant state/territory OH&S legislation

## Unit Sector(s)

Not Applicable

## Competency Field

Competency Field

D - Load Handling