

# Unit of Competency

**CODE:** TBDGLIC001A

**TITLE:** Preparation and Transport of Dangerous Goods by Road

**DESCRIPTOR:** This unit of competency covers the skills and knowledge required for a driver to prepare for and transport dangerous goods by road in large receptacles.

**EMPLOYABILITY SKILLS:** 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 unit of competency is packaged will assist in identifying Employability Skill requirements.

**APPLICATION OF THIS UNIT:**

The unit requires the driver to be able to identify, safely load (where applicable), secure and transport dangerous goods in large receptacles from one depot to another on public roads. UN classes and UN Divisions are limited to 2.1, 2.2, 2.3, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 6.2, 8 and 9.

**LICENSING/LEGISLATIVE REQUIREMENTS:**

The primary legislative requirements applicable to this unit of competency are State/Territory legislation in relation to the transport of Dangerous Goods, Australian Code for the Transport of Dangerous Goods by Road and Rail Seventh Edition (ADG7), relevant Australian Standards (AS) and relevant Occupational Health and Safety (OHS) legislation including licensing and assessment requirements.

ELEMENT	PERFORMANCE CRITERIA
<b>1.0 Identify Dangerous Goods by Class and Division</b>	
<b>1.1 UN Numbers, UN Classes and UN Divisions of Dangerous Goods including Packaging Groups.</b>	<p>1.1.1 Determine <b>proper shipping names</b> and other relevant information from Dangerous Goods List</p> <p>1.1.2 Determine from UN number and <b>UN classes and UN divisions</b> labels for dangerous goods in accordance with the ADG Code 7<sup>th</sup> edition and regulatory requirements.</p> <p>1.1.3 Identify applicable <b>Packing Groups</b> for dangerous goods and their significance.</p> <p>1.1.4 Evaluate the information provided in the Dangerous Goods List related to special provisions <b>limited quantities</b> and packing instructions.</p>

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ELEMENT	PERFORMANCE CRITERIA
<b>2.0 Preparation for the Transport of Dangerous Goods</b>	
<b>2.1 Suitability of transport vehicle for intended load.</b>	<p>2.1.1 Assess the suitability of a <b>transport vehicle</b> to carry designated dangerous goods including general roadworthy condition, fittings and accessories, knowledge of operation of control systems, rear impact protection, awareness of mass, configuration, and other requirements for the intended load.</p> <p>2.1.2 Identify and check (<b>where relevant</b>) appropriate vehicle <b>licences and insurance</b> requirements for conformity with the ADG Code and regulatory requirements.</p> <p>2.1.3 Identify and check the serviceability and suitability (where appropriate) of <b>attachment system</b> ensuring intended load is secure.</p> <p>2.1.4 Identify and check transport vehicle has the correct and clear <b>placarding</b> for the class or division of dangerous goods being carried.</p> <p>2.1.5 Identify and check Road Tank Vehicles are fitted with a rollover device in accordance with the relevant standards and regulatory requirements.</p> <p>2.1.6 Demonstrate knowledge that <b>dangerous goods receptacle/s</b> including tanks, Intermediate Bulk Containers (IBCs) and bulk containers must be approved by the competent Authority.</p> <p>2.1.7 Identify and check documentation to determine that maintenance has been carried out on tanks and IBCs in accordance with the regulatory requirements and the ADG code. (<b>where relevant</b>)</p> <p>2.1.8 Assess the suitability of <b>receptacles</b> for the storage and transport of dangerous goods in accordance with regulatory requirements.</p>
<b>2.2 Dangerous Goods load</b>	<p>2.2.1 Inspect and ascertain that <b>ullage</b> complies with ADG code and regulatory requirements.</p> <p>2.2.2 Check the load against manifest to ensure that dangerous goods markings &amp; vehicle placards are correct, legible and clearly visible.</p> <p>2.2.3 Identify and check the loads for <b>compatibility</b> or, in combination transport modes, check for appropriate separation distances in accordance with regulatory requirements.</p> <p>2.2.4 Identify and check the transport documentation is located in the cabin in accordance with regulatory requirements.</p>
<b>2.3 Emergency Procedures</b>	<p>2.3.1 Identify and check that <b>emergency information</b> for the type of dangerous goods being transported is located in cabin in accordance with ADG Code requirements.</p>

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	2.3.2 Ensure relevant codes and enterprise procedures are followed for incidents/accidents including notification of relevant personnel and authorities, and where appropriate, use of safety equipment for containment, clean up or recovery.
<b>2.4 Safety equipment and its use</b>	<p>2.4.1 Determine what <b>safety equipment</b> is required for the type of dangerous goods being transported in accordance with workplace and regulatory requirements.</p> <p>2.4.2 Assess the suitability and compliance of <b>personal protective equipment</b> with the relevant legislation.</p> <p>2.4.3 Determine the limitations of safety and personal protective equipment.</p> <p>2.4.4 Ensure the use of personal protective equipment and safety equipment is in accordance with workplace and regulatory requirements.</p>
<b>2.5 Evaluate documented route plan</b>	<p>2.5.1 Identify the appropriate <b>regulatory and enterprise procedures for planned routes</b> driving, parking, loading and unloading including actions for disengaging and/or securing the vehicle.</p> <p>2.5.2 Identify the appropriate regulatory and enterprise procedures for <b>breakdowns</b>.</p>
<b>2.6 Transport documentation</b>	<p>2.6.1 Identify and check that all required <b>transport documentation</b> is completed in accordance with workplace and regulatory requirements including the ADG Code.</p> <p>2.6.2 Identify and demonstrate knowledge of appropriate regulation and enterprise procedures for <b>amending transport documents</b></p>
<b>PERFORMANCE CRITERIA</b>	
<b>3.0 Transfer of Dangerous Goods</b>	
<b>3.1 Bulk transfer of Dangerous Goods</b>	<p>3.1.1 Identify and adhere to the appropriate regulatory and enterprise procedures for the correct <b>positioning of vehicle</b> for dangerous goods bulk transfer.</p> <p>3.1.2 Identify and adhere to suitable <b>safety measures</b> for each class of dangerous goods being transferred including distances from ignition sources, engine precautions and electrical bonding.</p> <p>3.1.3 Identify and adhere to the appropriate regulatory and enterprise procedures for bulk transferring of dangerous goods in <b>public and designated transfer areas</b>.</p> <p>3.1.4 Identify and adhere to the appropriate regulatory and enterprise procedures for <b>transferring gases</b>.</p> <p>3.1.5 Identify the <b>responsibilities of drivers and/or approved</b></p>

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	<p><b>passengers</b> during transfer of dangerous goods.</p> <p>3.1.6 Identify and adhere to Emergency procedures in the event of a <b>spill or leak</b> during transfer.</p> <p>3.1.7 Identify and adhere to appropriate procedures for recommencing the transfer of dangerous goods after a spill or leak has been dealt with.</p> <p>3.1.8 Identify hoses used to transfer have been tested and are in safe condition in accordance with regulatory requirements including:-</p> <ul style="list-style-type: none"> <li>- Testing intervals</li> <li>- Identification of <b>hoses and components</b>.</li> </ul>
<p><b>3.2 Flammable Dangerous Goods</b></p>	<p>3.2.1 Identify and check that <b>cabling</b> on a vehicle is protected in accordance with regulatory requirements and Australian Standards. <b>(where relevant)</b></p> <p>3.2.2 Identify and check that <b>battery isolation switches</b> are clearly identified and labelled.</p> <p>3.2.3 Assess the suitability of <b>pumps</b> used in the bulk transfer of dangerous goods.</p> <p>3.2.4 Identify the <b>lighting</b> used during transfer is in accordance with regulatory requirements.</p> <p>3.2.5 Identify and check where applicable that <b>sparking electrical equipment</b> such as relays and switches are reported to the competent person.</p> <p>3.2.6 Identify and ensure that <b>separation distances</b> from ignition sources are appropriate and meet regulatory requirements</p>
<p><b>ELEMENT</b></p>	<p><b>PERFORMANCE CRITERIA</b></p>
<p><b>4.0 Transporting Dangerous Goods</b></p>	
<p><b>4.1 Safe transport of Dangerous Goods</b></p>	<p>4.1.1 Identify and adhere to regulatory procedures for <b>carrying passengers</b> while transporting dangerous goods.</p> <p>4.1.2 Identify and adhere to regulatory procedures regarding <b>prohibited practices</b> and the carrying of <b>prohibited objects</b> during transport.</p> <p>4.1.3 Identify and adhere to regulator and enterprise procedures relating to planned <b>transport routes</b> and ensure prohibited areas are observed.</p> <p>4.1.4 Identify and observe <b>parking</b> requirements in relation to:-</p> <ul style="list-style-type: none"> <li>- Routine operation and unloading vehicle</li> <li>- Designated rest stops</li> <li>- Emergencies or dangerous situations</li> <li>- Complying with a requirement of law</li> </ul>

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	<p>4.1.5 Identify and adhere to appropriate procedures for the operation of <b>burners (bitumen tankers)</b> in accordance with regulatory requirements.</p> <p>4.1.6 Identify and adhere to regulatory requirements relating to the transport of empty or nominally <b>empty packaging and containers</b> used to transport dangerous goods.</p> <p>4.1.7 Identify and establish (<b>where relevant</b>) the driver's role in the relevant <b>emergency transport response plan</b>.</p> <p>4.1.8 Identify the driver's role in a <b>breakdown situation</b>.</p>
<b>4.2 Load Security</b>	<p>4.2.1 Establish appropriate <b>load restraint method/s</b> for the transport of Dangerous Goods in accordance with workplace and regulatory requirements.</p> <p>4.2.2 Inspect load restraint <b>securing points</b>, for defects, strength and location.</p> <p>4.2.3 <b>Inspect load restraint</b>, mechanisms and associated equipment for excessive wear and damage.</p>

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## RANGE STATEMENT

The range of variables explains the range of contexts within which the performance and knowledge requirements of this standard may be assessed. The assessment must determine that there is sufficient skill and knowledge for the driver to take the licence and transport Dangerous Goods by road. The assessment must be adjustable but prescriptive to ensure transferability.

- **Requirements for the preparation and transport of dangerous goods by road may include but not limited to:**
  - ❖ **Identification of dangerous goods**
    - ***Proper Shipping Name*** may include but not limited to;
      - class and division
    - ***UN Classes and UN Divisions*** may include but not limited to ;
      - referencing UN number against proper shipping name
      - diamond colour and number
      - special provisions
    - ***Packing groups*** may include but not limited to;
      - risk factors
      - subsidiary risks
    - Large packaged and ***limited quantities*** of Dangerous Goods may include but not be limited to;
      - distinguish differences by quantity
      - determine licensing requirements
    - ***Segregation*** may include but be not limited to;
      - compatibility
      - stowage requirements
    - ***Hazchem code*** may include but not be limited to ;
      - Fire and spillage actions codes
      - Public risk code
      - Fire fighting media
      - Personal protection
  - ❖ **Preparation for Transport**
    - Suitability of ***transport vehicle*** may include but not be limited to;
      - licensing/certification of vehicle
      - compatibility
      - securing and shut off mechanisms
      - control systems mass
      - configuration
      - general condition/road worthiness
      - compliance with load switching
      - stability
      - cabin clearances to tank
      - exhaust discharge
      - road clearances and
      - tail shaft protection
      - rear impact protection

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- **Transport Tanker vehicle** may include but not be limited to;
  - rear impact protection
  - design approval
  - maintenance checks
  - roll over device
- **Licences and insurances** may include but not be limited to;
  - driver and vehicle licences
  - **(where relevant)** refers to owner operators
  - vehicle and public insurances
- **Attachment systems** may include but not be limited to ;
  - suitability
  - serviceability
- **Placarding** may include but not be limited to;
  - selection
  - design specifications
  - location on vehicle
  - emergency information panels
  - security of placards
- **Dangerous goods receptacles** may include but not be limited to;
  - tanks
  - Intermediate Bulk Containers (IBC)s
  - freight containers
  - design approved
  - maintenance checks clearly visible
- **Receptacles** may include but not be limited to;
  - suitability
  - compatibility
  - ventilation
  - placarding
  - compliance plate
- **Ullage** may include but not be limited to ;
  - calculating maximum permitted capacity
  - observing ullage requirements
- **Compatibility** may include but not be limited to ;
  - combination transport modes
  - segregation
  - compatibility of various substances
- **Emergency Information** may include but not be limited to ;
  - location in cabin
  - incident/accident reporting
  - following authorised officers directions
  - emergency response actions

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- **Safety Equipment** may include but not be limited to ;
  - selection
  - workplace requirements
- **Personal Protective Equipment** may include but not be limited to;
  - Selection
  - compliance
  - limitations
  - training
  - use
- **Regulatory and enterprise procedures for planning routes** may include but not limited to ;
  - driving conditions
  - sensitive environment/populated areas
  - parking locations and facilities
  - loading & unloading facilities
  - disengaging & securing vehicle or trailer
  - incident/accident breakdown procedures
- **Breakdown** may include but not be limited to ;
  - securing transport vehicle
  - securing site area
  - public warning devices e.g. warning triangles
  - comply with enterprise procedures
- **Transport Documentation** may include but not be limited to;
  - load securing systems
  - documents correctly completed
  - location of documents in cabin
- **Amending Transport Documents** my include but not be limited to;
  - Transport, loading and unloading
  - split loads
  - different locations
- **Requirements for bulk transfer of Dangerous Goods may include but not limited to:-**
  - ❖ **Transfer Dangerous Goods**
    - Correct **positioning of the vehicle** may include but not be limited to;
      - loading and unloading methods
      - public and workplace safety
      - barricades and signs
      - lighting
    - Suitable **safety measures** for each class may include but not be limited to;
      - specific safety equipment
      - specific personal protective equipment
      - segregation requirements
      - spill and leak kits
      - accident/incident response procedures
    - **Public, designated transfer areas and enclosed spaces** may include but not be limited to;

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- specialised lifting and/or handling equipment
- public and workplace safety
- barricades
- lighting
- spill and leak kits
- air quality
- weather conditions
- site restrictions and procedures
- required permits and/or authorities/approvals
- accident/incident response procedures
- noise restrictions
- hours of operation
- authorities and permits communications equipment
- communication equipment
- ***Transferring gases*** may include but not be limited to;
  - ullage is observed
  - battery isolation
  - lighting
  - public and workplace safety
  - sparking electrical equipment
  - hoses and components
  - cabling protection
  - transfer equipment (pumps)
  - spills and leak kits
  - safety equipment
  - personal safety equipment
- ***Responsibilities of driver and/or approved passengers*** may include but not be limited to ;
  - carrying prohibited objects
  - driver to remain near vehicle while transferring load
  - observing the loading and unloading
  - emergency procedures
  - regulatory requirements
- ❖ **Transfer of Flammable Dangerous Goods**
- ***Spills and leaks*** may include but not be limited to ;
  - procedures are established
  - emergency information
  - accident/incident procedures
  - kits provided
  - safety equipment
  - personal safety equipment
  - regulatory and workplace procedures
- ***Hoses and components*** may include but not be limited to;
  - testing identification (tagging)
  - identification of hoses and components

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- **Cabling** may include but not be limited to ;
  - Mechanically protected
  - Visually checked to meet regulatory requirements
- **Battery isolation switches** may include but not be limited to ;
  - located in suitable position
  - clearly marked/signposted
- **Pumps** may include but not be limited to ;
  - suitable for the load
  - electrically protected
- **Lighting** may include but not be limited to ;
  - suitably protected electrically
  - waterproof
  - appropriate illumination
- **Sparking electrical equipment** may include but not be limited to ;
  - suitable for zone 1 application

## Transporting Dangerous Goods

### **Procedures for safe transport of Dangerous Goods:-**

- **Carrying passengers** may include but not be limited to ;
  - approved passengers
  - responsibilities
  - regulatory requirements
- **Prohibited practices** may include may include but not be limited to ;
  - practices
- Carrying **of prohibited objects** may include but not be limited to ;
  - identify prohibited objects
- **Transport routes** may include but not be limited to ;
  - planned transport routes
  - prohibited routes observed
- **Emergency transport response plan** including but not be limited to:
  - Plan to meet TRP guideline
- **Breakdown situation** including but not be limited to:
  - Enterprise requirements
  - ADG code
  - Flat tyre
  - Engine failure
  - Transmission failure
  - Suspension failure
- **Parking** may include but not be limited to ;
  - routine operation and unloading vehicle
  - designated rest stops
  - emergencies or dangerous situations

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- complying with a requirement of law
- short meal breaks
- Operation of **burners ( bitumen tanks)** may include but not be limited to ;
  - compliance plates legible
  - operation of burner whilst in transit
  - chemical additives to bitumen
- **Empty packaging and containers** may include but not be limited to ;
  - gas free certificates
  - labels
  - placarding
  - suitability of container (eg corrosion)

**Load restraint systems are as detailed in the National Load Restraint Guide including but not be limited to:-**

- **Load restraint method/s** may include but not be limited to ;
  - compatibility and suitability
  - rigid sides, gates and tailgates
  - load distribution
- **Securing points** may include but not be limited to ;
  - location
  - strength
- **Inspect load restraint** may include but not be limited to ;
  - excessive wear/damage
  - damaged or worn mechanisms

## General context

- Work must be carried out in compliance with the ADG Code and relevant State/Territory regulations concerning the transport of dangerous goods by road.
- Work is performed under general supervision
- Work involves the application of basic principles, routine procedures and regulatory requirements to the preparation and transport of dangerous goods by road.

## Worksite environment

- 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:

- restricted spaces
- exposed conditions
- controlled or open environments
- 'Vehicle' refers to all applicable transportation modes and includes all kinds of bulk containers.
- Hazards in the work area may include but not limited to exposure of:
  - hazardous or dangerous materials
  - contamination of, or from, materials being handled

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- noise, light, energy sources
- stationary and moving machinery, parts or components
- service lines
- spills, leakages, ruptures
- dust/vapours
- 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.
- Personal protection equipment may include but not limited to:
  - chemical gloves
  - safety headwear and footwear
  - safety glasses
  - face shields
  - mask or respirator
  - high visibility clothing
  - protective overalls
  - hearing protection
- Safety equipment on vehicle may include but not limited to:
  - fire extinguishers
  - portable warning devices
  - eye wash kit
  - spill kits
  - rollover device
  - first-aid kit
- Preparation for transport of dangerous goods may require special precautions as specified by the manufacturer.
- Transport documentation
  - descriptions for dangerous goods loaded on vehicle (i.e. class, division, proper shipping name, UN number, and other non dangerous goods if applicable etc.)
  - consignment notes or manifests
  - material safety data sheets (MSDS)
  - location of document holder in cabin
- Emergency Information
  - dangerous goods - Initial Emergency Response Guide (IERG)
  - emergency procedure guide and vehicle fire (EPG)
  - in the form approved by the competent authority
  - location in cabin
- Consultative processes may involve:
  - other employees and supervisors
  - suppliers, potential customers and existing clients
  - management and union representatives
  - industrial relations, OHS specialists, and other maintenance, professional or technical staff
- Communication in the work area may include but not limited to:
  - phone
  - mobile phone
  - electronic data interchange
  - fax
  - e-mail

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- internet
- radio
- oral, aural or signed communications
- Depending on the type of organisation concerned and the local terminology used, workplace procedures may include but not limited to:
  - company procedures
  - enterprise procedures
  - organisational procedures
  - established procedures
  - site procedures

## Sources of information/ documents:-

- Information/documents may include:
  - Australian Dangerous Goods Code, relevant Australian Standards and the Industry Safety Code
  - manifests, bar codes, goods and product identification
  - manufacturer's specifications for equipment/tools
  - workplace procedures and policies for the preparation and transport of dangerous goods.
  - goods identification numbers and codes, including IMDG markings, UN codes and HAZCHEM signs, dangerous goods class labels and EIP's
  - supplier and/or client instructions
  - award, enterprise bargaining agreement, other industrial arrangements
  - relevant standards and certification requirements
  - quality assurance procedures
  - emergency procedures
  - manufacturer's specifications, instructions and labelling advice for the transport of dangerous goods, including material safety data sheets (MSDSs)

## Application of regulations and legislation:-

- Applicable regulations and legislation may include:
  - 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 Code for the transport of Dangerous Goods by Road and Rail Seventh Edition or its successor.
    - Australian Marine Orders and the International Maritime Dangerous Goods Code
    - IATA's 'Dangerous Goods by Air' regulations
  - Australian and State/Territory regulations related to the bulk transport of dangerous goods by road
  - relevant Australian Standards, including AS 2809.1-6, AS 2931
  - relevant State/Territory environmental protection legislation
  - relevant State/Territory OHS legislation

## Occupational health and safety requirements may include but not limited to:-

- Safe systems and procedures for:
  - manual handling
  - handling including lifting and carrying
  - handling, application and storage of hazardous substances and dangerous goods
  - the protection of people in the workplace
  - using lifting equipment and associated gear to manufacturers' specifications
  - extreme environment temperatures (hot/cold)
  - use of high visibility clothing/reflective vests.
  - the appropriate use and maintenance of personal protective equipment
  - hazard and risk control

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- transferring Dangerous Goods
- load restraint and protection

## What permits may be relevant to this standard?

Any permits required to carry out job activity are obtained from the relevant authorised personnel for example confined spaces, chemical or dangerous goods storage and transport, explosives, by road.

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## 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 Guidelines for this Training Package.

Competence in this standard requires evidence of skills and knowledge required to prepare for and transport of dangerous goods by road. It requires the ability to identify specific classes of dangerous goods, prepare for transport, transfer dangerous goods (loading and unloading) and safely transport with regard for compliance with established procedures all relevant state/territory legislation and Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) Seventh Edition.

*Critical aspects for assessment and evidence required to demonstrate this competency unit:*

- identify UN classes, UN Division, packing group, class and subsidiary risk labels for dangerous goods
- compliance with ADG and relevant dangerous goods legislation
- determine Proper Shipping names for UN numbers
- identify the level of risk within particular dangerous goods classes/divisions
- identify other persons involved in the transport of dangerous goods by road
- identify the required information on a transport document for the transport of dangerous goods
- identify emergency information document and its storage location
- apply segregation methods to incompatible dangerous goods
- demonstrate the ability to appropriately placard dangerous goods vehicles
- identify required information on an emergency information panel
- assess operational suitability of equipment and vehicles pertinent to dangerous goods transportation
- estimate weight and dimensions of load and any special requirements
- select appropriate equipment and work systems to enable safe, efficient work
- identify hazards and plan work to minimise risks when transporting dangerous goods
- determine (any) required permits
- use appropriate communication strategies and equipment
- locate, interpret and apply relevant information
- maintain workplace records and documentation
- identify and safely handle equipment and goods
- apply hierarchy of hazard control

*Access and equity considerations:*

- All workers in the transport industry should be aware of access and equity issues in relation to

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their own area of work

- All workers should develop their ability to work in a culturally diverse environment
- Assessors and trainers must take into account relevant access and equity issues, in particular relating to factors impacting on Aboriginal and/or Torres Strait Islander transport drivers and communities

## *Method of assessment:*

- Assessment must include questioning (verbal and/or written) to address Essential Knowledge as outlined in this unit.

## ***Interdependent assessment of unit***

This unit of competency may be assessed in conjunction with other units that form part of a worker's job function.

## *In what **Context** should the assessment occur?*

- Assessment of this unit must be undertaken by a Registered Training Organisation:
  - As a minimum, assessment of knowledge must be conducted through appropriate oral and/or written questioning
  - Appropriate practical assessment must occur:
    - at the Registered Training Organisation, and/or
    - in an appropriate work situation or realistic simulated work environment
- Assessment is to comply with relevant regulatory requirements including Australian Dangerous Goods Code 7<sup>th</sup> Edition and relevant Australian Standards in relation to the transport of dangerous goods by road.

## *What are the required **Knowledge and Skills** for this unit?*

- ADG Code and relevant State/Territory dangerous goods regulations as they apply to vehicles transporting dangerous goods by road
- OHS and procedures and guidelines concerning the transport of large and small quantities of dangerous goods
- Risks associated with the transporting of dangerous goods by road and related precautions to control those risks
- Workplace procedures and policies for the preparation of large packaging of dangerous goods
- Housekeeping standards procedures required in the workplace
- Assess suitability of transport vehicles intending to carry dangerous goods
- Ability to read and interpret information on transport documentation including consignment/manifest sheets
- Plan appropriate transport routes and appropriate rest stops
- Ability to complete appropriate documentation
- Methods of securing a vehicle following loading and unloading of dangerous goods including bulk transfer of dangerous goods
- Relevant permit and licence requirements
- Ability to identify and correctly use equipment required for the bulk load/transfer of dangerous goods
- Ability to modify activities depending on differing workplace contexts, risk situations and environments
- Ability to read and comprehend simple statements in English
- Ability to identify goods labelling, IMDG markings and, where applicable, emergency information panels

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- Ability to select and place appropriate placarding on vehicle/s transporting dangerous goods by road
- Ability to estimate the mass, volume and special requirements of a load
- Ability to identify and follow emergency procedures in the case of accident/incident
- Ability to use personal protection equipment
- Ability to use safety equipment including fire extinguishers and eye wash kit
- Ability to identify/demonstrate appropriate load restraint methods

*What are the specific **Resource** implications for this unit?*

- Access is required to opportunities to:
  - participate in a range of exercises, case studies and other real and/or simulated practical and knowledge assessments that demonstrate the skills and knowledge to prepare large packaging of dangerous goods, and/or
  - prepare large packaging of dangerous goods for transport by road in an appropriate range of operational situations

*Demonstrates **Consistency** in performance:-*

- Applies underpinning knowledge and skills when:
  - assessing operational suitability of equipment and vehicles pertinent to the transport of dangerous goods by road
  - identifying class and subsidiary risk labels for dangerous goods
  - estimating weight and dimensions of load and any special requirements
  - selecting appropriate equipment and work systems to enable safe, efficient work
  - identifying hazards and planning work to minimise risks when transporting dangerous goods by road
  - determining required permits, approvals or licences to transport dangerous goods by road
  - using appropriate communication strategies and equipment
  - locating, interpreting and applying relevant information
  - maintaining transport documentation, driving records and any other workplace records
  - identifying and safely handling equipment and goods
  - applying hierarchy of hazard control
- Shows evidence of application of relevant transport procedures including:
  - State/Territory dangerous goods regulations and procedures
  - Australian Dangerous Goods Code and associated Australian Standards
  - OHS regulations and hazard prevention policies and procedures
  - workplace procedures and work instructions concerning the preparation and transport of dangerous goods by road
  - relevant guidelines relating to the use of loading equipment
  - housekeeping procedures
  - environmental protection procedures when transporting dangerous goods by road
- Action is taken promptly to report any accidents, incidents or potential difficulties in the preparation and transport of dangerous goods by road in accordance with regulations and workplace procedures
- Performance is demonstrated consistently over a period of time and in a suitable range of contexts

*Work is completed systematically with required attention to detail without damage to goods, equipment or personnel*