



Australian Government

TLILIC0025 Licence to transport dangerous goods by road

Change log - Still to complete when content finalised

Section	Comment (major change)
Title	No change
Application	Updated to reflect amended unit content
Pre-requisite Unit	NA
Elements and Performance Criteria	Content reworked substantially to reflect direction from the Competent Authorities Panel (CAP) regarding licence requirements Performance criteria changed from passive to active voice
Foundation Skills	Foundation skills information about unit has been added to a new TLI Foundation Skills Companion Volume

Australian Core Skills Framework	Learning	Reading	Writing	Oral Comm	Numeracy
	3	3	2	2	2
Digital Skills (DigComp 3.0)					
Basic: CS3.4.04: Represent simple sequences symbolically, interpret simple symbolic sequences, and give basic instructions to a computer to perform simple tasks					
Basic: CS5.1.03: Identify common technical issues and follow instructions to help to solve them.					
Int: CS3.2.07: Modify or transform digital textual, numeric or visual representations to effectively and accurately convey the meaning of data and information.					

Range of Conditions	Removed. No longer a mandatory field
Performance Evidence	Content reworked to reflect direction from the Competent Authorities Panel (CAP) regarding licence requirements
Knowledge Evidence	Content reworked to reflect direction from the Competent Authorities Panel (CAP) regarding licence requirements
Assessment Conditions	Minor changes to wording

If no major change in any section

TLILIC0025 Licence to transport dangerous goods by road

Modification History

Release	Comments
1	This unit of competency was first released in TLI Transport and Logistics Training Package Release 17.0.

Application

This unit involves the skills and knowledge required to obtain a dangerous goods (DG) driver licence to transport DG by road.

The unit covers compliance with regulatory requirements but does not address all the skills and knowledge for the transportation of DG. On achieving this unit and obtaining a licence, further industry specific training will be required to satisfy legislative requirements to transport DG.

Licensing/Regulatory Information

The primary legislative requirement applicable to this unit of competency is the Model Subordinate Law on the Transport of Dangerous Goods by Road or Rail, which is reflected in state/territory legislation.

This law, in relation to the safe transport of DG, references the current version of the Australian Dangerous Goods (ADG) Code, the Model Act on the Transport of Dangerous Goods by Road and Rail, relevant Australian Standards and relevant work health and safety (WHS)/occupational health and safety (OHS) legislation including licensing and assessment requirements. All requirements of this unit of competency must be completed in compliance with the ADG Code.

Achieving this unit of competency is a necessary requirement for obtaining a licence. However, it is only one of several criteria for obtaining a DG driver licence. More information can be sourced from the Competent Authority (regulator) in each jurisdiction regarding other criteria that apply, which can vary between states and territories. Compliance with these requirements may be required nationally and/or in specific jurisdictions.

Pre-requisite unit(s)

Not applicable.

Competency field(s)

LIC - Licensing

Unit sector(s)

Transport and Logistics

Elements and Performance Criteria

Elements		Performance criteria	
Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Identify regulation, codes and organisations involved in the transport of dangerous goods (DG)	1.1	Identify DG and the harm that can be caused when different classes of DG are released
		1.2	Identify and apply regulation, legislation and codes of practice applicable to the transport of DG
		1.3	Identify organisations that regulate the transport of DG
		1.4	Identify the roles and duties of individuals involved in the transport of DG
2	Identify classes and containment/packaging requirements for DG	2.1	Identify proper shipping names and other relevant information from the DG Lists
		2.2	Identify United Nations (UN) numbers and DG class labels
		2.3	Identify UN specification packaging for dangerous goods
		2.4	Identify organisational and site-specific procedures related to the loading and transport of dangerous goods
3	Determine DG loading requirements	3.1	Identify compliance requirements for completion and placement of transport documents
		3.2	Identify load incompatibility and segregation requirements
		3.3	Determine suitability of vehicle and loading/transfer equipment for the load

		3.4	Identify damaged DG packaging or packaging unsuitable for transport and take appropriate action
		3.5	Determine degree of filling in large compartments
		3.6	Identify load restraint requirements in accordance with Load Restraint Guide
		3.7	Identify vehicle placarding requirements based on load
		3.8	Identify required emergency equipment, and emergency procedure guides, and where they must be located
		3.9	Identify pre trip and post loading and unloading inspection requirements
		3.10	Check transport documentation to ensure package labelling and vehicle placards are consistent with the load being carried
4	Plan the transport of DG	4.1	Plan routes including driving, parking, loading and unloading, uncoupling and/or securing the vehicle
		4.2	Check transport routes to identify restricted routes and ensure prohibited areas are avoided
		4.3	Identify specific transport requirements such as ventilation, temperature control or if decontamination is required
		4.4	Identify regulatory requirements for carrying passengers
		4.5	Identify regulatory requirements for carrying sources of ignition
		4.6	Identify regulatory requirements for transporting empty or nominally empty DG packaging

		4.7	Identify regulatory requirements for driver role and responsibilities in vehicle breakdown situations
5	Determine DG transfer/unloading requirements	5.1	Identify responsibilities of driver during transfer/unloading of DG
		5.2	Plan positioning of vehicle for DG product transfer and/or unloading
		5.3	Identify the appropriate safety measures for the transfer of all classes DG being transferred/unloaded
		5.4	Identify exclusion zones
		5.5	Identify inspection and test requirements for transfer equipment/hoses
		5.6	Complete/amend required transfer/delivery and transport documentation
6	Follow safety and emergency procedures	6.1	Identify exclusion zones, hazardous and safe areas, firefighting and spill control measures from emergency procedure guides (EPGs)
		6.2	Identify, select and check serviceability of safety and personal protective equipment (PPE) in accordance with the type of DG being transported
		6.3	Identify appropriate Emergency Action Codes (HAZCHEM codes) for a range of DG loads
1	Identify regulation, codes and organisations involved in the transport of dangerous goods (DG)	1.1	Identify DG and the harm that can be caused when different classes of DG are released

Foundation skills

Foundation Skills essential to successful completion of this unit are mapped to the Australian Core Skills Framework (ACSF) and the European Digital Competence Framework (DigComp 3.0). Further information is available in the TLI Training Package Foundation Skills Companion Volume.

Range of conditions

Not Applicable.

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Assessment Requirements for TLILIC0025 Licence to transport dangerous goods by road

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria, comply with the ADG Code, and include:

- identifying and attributing types of harms associated with different classes of DG
- identifying UN numbers and classes of DG including packing groups, and use them to determine segregation requirements
- determining proper shipping names for UN numbers
- assigning Emergency Action Codes (HAZCHEM codes) for a range of dangerous goods (DG) loads and interpreting their meaning
- verifying suitability of DG packaging for transport and identifying unsuitable packaging
- determining what degree of filling provisions apply, and whether they are met
- identify compatible and incompatible combinations of goods and selecting appropriate segregation method
- determining suitability of vehicle and handling equipment for DG being transported and handled
- verifying operationally ready safety equipment required according to the DG being carried
- determining appropriate methods of restraint in accordance with the Load Restraint Guide
- checking transport routes for suitability
- preparing, checking and amending DG transport documentation
- using transport documents to determine the correct vehicle placarding for different load types and for co-transport of multiple consignments
- determining key emergency information needed from the Australian and New Zealand Emergency Response Guidebook.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and include knowledge of:

- DG identification and non-DG labelled with Globally Harmonised System (GHS) labelling

- ADG code requirements for transporting nominally empty DG packages, tanks, and bulk containers recognising format for proper shipping names
- role and purpose of packing groups
- Classes of DG
- Class labels and their use
- UN numbers and proper shipping names
- approved packaging for DG (including UN-specification packaging and IBCs) and related instructions
- damaged and defective packages, tanks and bulk containers; reasons for rejection; and, actions to take if packaging is damaged/unsuitable
- overpacks and how they are used and labelled
- purpose and use of segregation charts
- methods of segregation including:
 - use of separate vehicles or cargo transport units
 - segregation devices
 - overpacks for segregation
 - packaging for segregation
- segregation principles based on Class, including special provisions
- load restraint methods for transporting DG
- methods of load restraint (e.g., for IBCs and drums)
- practical methods of restraint in accordance with the ADG Code and Load Restraint Guide (published by National Heavy Vehicle Regulator, or as required by jurisdiction)
- pre-load and pre-trip inspections of operational suitability of equipment and vehicles for DG transportation
- required deck heights for ISO tanks
- methods to ensure vehicle suitability including:
 - as a road vehicle to transport a freight container, portable tank or bulk container fitted with corner castings – fitted with twist locks or other equipment for securing
 - as a road vehicle to transport a demountable tank or bulk container without corner castings and fitted with devices to secure the container
 - as a tank vehicle (in accordance with the relevant section of the ADG Code)
 - for transporting goods:
 - that it is free from residues of DG on outside of tank/package

- that is free of any defect that is likely to create a risk in transporting goods
- ADG code requirements for filling large compartment tanks
- methods for transfer for different classes of DG and awareness of organisational/site-specific transfer procedures and requirements
- rationale for correct vehicle positioning during transfer
- transfer activities, hazards and related emergency procedures, and key steps in responding to incident in transfer
- types of transfer equipment
- types and functions of safety measures for transferring DG
- assessing adequacy of lighting levels for transfer activities
- requirements for inspection/testing of transfer equipment
- transport routes, including:
 - prohibited areas
 - restricted routes
 - reasons why some routes are prohibited/restricted
 - restrictions that apply to different load types
 - what to do when accidentally on a prohibited route
- vehicle placarding threshold for loads of DG
- regulatory requirements that apply to the transport of placarded loads and appropriate placarding of vehicles including:
 - rigids
 - combinations
 - tankers
 - freight containers
- placarding of packages, tanks and bulk containers used for import/export in accordance with International Maritime Dangerous Goods (IMDG) Code
- placarding and special transport considerations, including:
 - decontamination of freight containers, prior to removal of placarding for Class 6.1
 - dry conditions (i.e. exclusion of water) for Class 4
 - temperature control in refrigerated units for Class 4.1/5.2
 - ventilation of cargo transport units for Class 2.1/2.3
- role, serviceability and use of safety equipment when transporting DG

- hose maintenance, testing and visual inspection requirements, and appropriate actions if non-compliant
- assessing suitability and serviceability of safety equipment including personal protective equipment (PPE)
- role, duties and responsibilities of each member in the system and organisations related to transporting DG
- common responsibilities drivers share with consignors, loaders and carriers
- Driver responsibilities when transporting DG by road including:
 - DG transfer activities
 - TERP
 - vehicle breakdowns
 - dangerous situations
- purpose and application of a Transport Emergency Response Plan (TERP)
- reporting requirements for accidents, incidents or dangerous situations in accordance with TERP
- rationale for placing transport documentation in the emergency information holder (EIH) in cabin
- safety rationale behind regulatory requirements for:
 - driving
 - loading
 - parking
 - planning routes
 - securing vehicle
 - uncoupling
 - unloading
 - carrying passengers
 - control of ignition sources
- types, role and purpose of different DG transport documentation and ADG compliance requirements for documentation
- what constitutes a dangerous situation and the driver's responsibility when a dangerous situation occurs
- driver and emergency services roles and obligations in a dangerous situation
- emergency procedures and regulatory requirements for a spill or leak incident during transfer
- role, format and function of Emergency Action Codes (HAZCHEM codes)

- role, purpose and location of DG Lists in the ADG Code including special provisions for carriage and instructions it contains – this is about awareness rather than deep understanding of the DG lists.

Assessment Conditions

Competent Authorities may have additional requirements to the Standards for Registered Training Organisations for assessors where this unit is being used for the purpose of obtaining a DG Driver Licence.

Assessment must occur through suitable scenarios and where possible, simulated workplace operational situations that replicate workplace conditions. It is expected that assessment of emergency response components of this unit will be assessed in simulated scenarios.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment include:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

Mandatory Assessment Instrument (MAI)

Where this unit is being used for the purpose of obtaining a DG Driver Licence, the MAI must be used to conduct the summative competency assessment.

Registered Training Organisations must contact their Competent Authority for information on requirements, criteria and approval processes to obtain and use the MAI.

The MAI must be used in accordance with its directions as specified.

Evidence of competence is established using the MAI, which involves responses to questions about knowledge and an assessment of responses to practical scenario-based problems.

Mandatory Workplace Requirements

Assessment of performance evidence may be in a workplace setting or an environment that accurately represents a real workplace.

Unit Mapping Information

Previous Code and Title	Equivalence	Comments
TLILIC0001 Licence to transport dangerous goods by road	Not equivalent	

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/TLI>.

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