

Title	Demonstrate and apply knowledge of law and practice for the transport of Dangerous Goods by road		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: identify the scope of the Rule; identify driver and loader responsibilities relating to the transport of Dangerous Goods by road; identify documentation requirements relating to the transport of Dangerous Goods by road; identify the requirements for packages containing DGLQ, consumer commodities, small packages, and excepted packages; demonstrate knowledge of segregation requirements and segregate Dangerous Goods transported by road; demonstrate knowledge of placarding requirements and placard vehicles and freight containers containing Dangerous Goods transported by road; and identify driver actions and considerations in the event of an incident or emergency.
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Classification	Driving > Driver Licence Endorsements
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations, references and/or industry standards relevant to this unit standard include but are not limited to the:
 - Health and Safety at Work Act 2015;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 (refer to part 16, Tank wagons and portable containers);
 - Land Transport Act 1998;
 - Land Transport Rule: Dangerous Goods 2005;
 - Land Transport (Driver Licensing) Rule 1999;
 - International Air Transport Association (IATA) Dangerous Goods Regulations. Available from: www.iata.org/;
 - International Maritime Dangerous Goods (IMDG) Code. Available from: <https://www.imo.org/en/>;
 - NZS 5433:2020 Transport of dangerous goods on land and associated handbook SNZ HB 5433:2021, *New Zealand Handbook, UN Dangerous Goods List*. Available from <https://www.standards.govt.nz/>;
 - ANZ-ERG2021, *Australian and New Zealand Initial Emergency Response Guide Book*. Available from: <https://www.responsiblecarenz.com/>;
 - Waka Kotahi New Zealand Transport Agency, (2017). *Transporting Dangerous Goods* (Factsheet 64). Available from: <https://www.nzta.govt.nz/>;

- Worksafe Guidance to working with hazardous substances. Available from: <https://www.worksafe.govt.nz/>;

Any new, amended or replacement Acts, regulations, Rules, standards, codes of practice, or Waka Kotahi NZ Transport Agency requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Cleaned refers to all dangerous goods, that the container is free of dangerous residue of the substance to the satisfaction of the relevant regulatory authority.

Dangerous Goods refers to substances or articles specified in table A of the Land Transport Rule: Dangerous Goods 2005; and substances or articles declared by the relevant regulatory authority to be dangerous goods for transport including packaging and empty containers that have not been cleaned after containing dangerous goods.

Dangerous goods in limited quantities (DGLQ) refers to transport companies who are required to carry a variety of dangerous goods of smaller quantities to supermarkets and other manufacturers. These may be carried with reduced segregation requirements if they meet the New Zealand Land Transport Requirements

Driver and *loader* can be the same person. There are responsibilities attached to both roles that are combined if a driver loads his/her own vehicle.

Flammable variants refer to toxic substances (gas, liquid, solids) or biohazards.

Relevant regulatory authority refers to the New Zealand authority having statutory control over a particular class of Dangerous Goods, such as the Ministry of Health's Office of Radiation Safety, or WorkSafe New Zealand or the Environmental Protection Authority.

Segregate refers to loading specified Dangerous Goods in separate freight containers or on separate vehicles, or separating them horizontally by at least three metres from other specified goods on the same vehicle with the correct use of approved segregation devices when required.

Special marks refer to any of the following marks or symbols on packaging, containers, vehicles, portable tanks, or freight containers:

- (a) the elevated temperature mark;
- (b) the environmentally hazardous substance mark; or
- (c) orientation arrows.

The Rule refers to Land Transport Rule: Dangerous Goods 2005.

3 Assessment information

People who wish to assess against this unit standard to qualify candidates for driver licence endorsement D (Dangerous Goods) must be registered with Waka Kotahi as Approved Course Providers and use assessment material that has been pre-approved by Waka Kotahi and Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council.

- 4 Once candidates have achieved credit for this unit standard, and received a Waka Kotahi course completion certificate, the candidate may then apply to a Waka Kotahi driver licensing agent to have a D endorsement (Dangerous Goods) added to their driver licence. The Recognition of Current Competency (RCC) assessment process does not apply to this unit standard.

- 5 All evidence presented for assessment must be in accordance with the Rule.

6 Use of reference material is permitted during assessment.

Outcomes and performance criteria

Outcome 1

Identify the scope of the Rule.

Performance criteria

- 1.1 Classes and divisions of Dangerous Goods (excluding divisions of Class 1 Explosives) included in the Rule are identified.

Range name, class and division number, class label, type of hazard.

- 1.2 Limitations of the D endorsement are identified.

Range Class 1 Explosives, Dangerous Goods in bulk.

- 1.3 Requirements for transporting empty receptacles that have contained Dangerous Goods are identified.

Range empty uncleaned, empty cleaned.

Outcome 2

Identify driver and loader responsibilities relating to the transport of Dangerous Goods by road.

Performance criteria

- 2.1 Driver responsibilities relating to the transport of Dangerous Goods are identified.

Range vehicle parking including leaving vehicle unattended in a transit depot, load security, stopping at level crossings, documentation, emergency response information, D endorsement, vehicle placarding, segregation, responsibilities in the event of an incident or emergency.

- 2.2 Loader responsibilities relating to the transport of Dangerous Goods are identified.

Range checking packages before loading, segregation, load security, documentation, vehicle placarding.

Outcome 3

Identify documentation requirements relating to the transport of Dangerous Goods by road.

Performance criteria

- 3.1 The purposes of Dangerous Goods documentation are identified.
- Range Dangerous Goods declaration, DGLQ declaration, consumer commodities declaration, load plan, schedule of quantities, container/vehicle packing certificate, emergency response information, maritime declaration, IATA declaration.
- 3.2 The circumstances when documents must be carried on a vehicle are identified.
- Range Dangerous Goods declaration, load plan, container and/or vehicle packing certificate, emergency response information.
- 3.3 The location requirements of Dangerous Goods documentation are identified.
- Range carried in vehicles, disconnected trailers.

Outcome 4

Identify the requirements for packages containing DGLQ, consumer commodities, small packages, and excepted packages.

Performance criteria

- 4.1 The vehicle load limits for small packages and excepted packages are identified.
- 4.2 The marking requirements for packages containing DGLQ, consumer commodities, small packages, and excepted packages are identified.

Outcome 5

Demonstrate knowledge of segregation requirements and segregate Dangerous Goods transported by road.

Performance criteria

- 5.1 Segregation dispensations are explained.
- Range gas cylinders, aerosols, explosives of division 1.4.
- 5.2 The circumstances when approved segregation devices may be used are explained.
- 5.3 The consequences of mixing specific non-compatible goods are identified.

5.4 Segregating Dangerous Goods is demonstrated.

Range primary risk, subsidiary risk, using a segregation device, strong acids and strong alkalis, acids and cyanides, oxidisers, organic peroxides, flammable variants, lithium batteries, toxic and infectious substances, food items; evidence may be demonstrated using simulated scenarios.

Outcome 6

Demonstrate knowledge of placarding requirements and placard vehicles and freight containers containing Dangerous Goods transported by road.

Performance criteria

6.1 The threshold quantities when placarding is required are identified.

6.2 The circumstances when placards must be removed or covered are identified.

6.3 Vehicles and freight containers carrying Dangerous Goods are placarded.

Range placards include but are not limited to – Dangerous Goods placards, special marks, mixed loads, emergency information panel; vehicles and freight containers include – rigid vehicle, combination vehicle, tank wagon, disconnected trailer, portable tank, freight container; evidence may be demonstrated using simulated scenarios.

Outcome 7

Identify driver actions and considerations in the event of an incident or emergency.

Performance criteria

7.1 Driver actions in the event of an incident or emergency are identified.

Range may include but is not limited to – isolating the vehicle, containing any substance spillage, securing the scene, offering assistance, retrieval of documents, contacting emergency services, provision of information for emergency services, reporting.

7.2 Driver considerations in the event of an incident or emergency are identified.

Range includes but is not limited to – personal safety, the effects of wind, location of bystanders, the effects of low lying areas.

Planned review date	31 December 2028
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 July 1999	31 December 2011
Review	2	27 August 2002	31 December 2011
Review	3	25 July 2006	31 December 2011
Review	4	19 November 2010	31 December 2019
Review	5	23 November 2017	31 December 2024
Review	6	30 June 2022	31 December 2025
Review	7	30 November 2023	N/A

Consent and Moderation Requirements (CMR) reference

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.