

Title	Demonstrate knowledge of the transportation of Class 1 Explosives by road		
Level	3	Credits	5

Purpose	<p>This unit standard is intended for the drivers of road transport vehicles that carry goods classified as Class 1 Explosives under the Hazardous Substances and New Organisms (HSNO) Act 1996.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: legislation relating to the transportation of Class 1 Explosives; United Nations Identification system for Class 1 Explosives; the segregation of explosives and classification process of mixed loads; documentation requirements for dangerous goods; and the initial response required for a dangerous goods emergency.</p> <p>They are also able to explain road transport procedures for Class 1 Explosives and describe offences and penalties relating to the transportation of Class 1 Explosives.</p>
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Classification	Commercial Road Transport > Goods Service
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Available grade	Achieved
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Prerequisites	Drivers must hold a current full driver licence appropriate to the class of vehicle being driven, and a current D endorsement.
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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:
 - Hazardous Substances and New Organisms Act 1996 (HSNO Act);
 - Health and Safety at Work Act 2015 (HSW);
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 (HSW (HS));
 - Land Transport (Offences and Penalties) Regulations 2005;
 - Land Transport Rule: Dangerous Goods 2005;
 - Hazardous Substances Professionals New Zealand (HSPNZ). (current edition). *Code of Practice for the Transport and Transfer of Explosives*. Available from: <https://www.hspnz.co.nz/>;

- NZS 5433: 2020 *Transport of dangerous goods on land* and associated handbook, HB 5433:2021 *New Zealand Handbook, UN Dangerous Goods List*. Available from: <https://www.standards.govt.nz/>;
- SNZ HB 76: 2010 *Dangerous Goods Initial Emergency Response Guide*. Available from: <https://www.standards.govt.nz/>;
- ANZ-ERG2021, *Australian and New Zealand Emergency Response Guide Book*;
- United Nations. (current edition). *Recommendations for Transport of Dangerous Goods (UNRTDG)*. Available from: <https://www.responsiblecarenz.com/>;
- Worksafe. (2017). *Licensing Requirements for Class 1 Explosives*. Available from: <https://www.worksafe.govt.nz/> (refer to *Controlled substance licenses*).

Any new, amended or replacement Acts, regulations, standards, codes of practice, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Compatibility Group refers to the letter which follows the Hazards Division number in the Classification Code of an explosive. These are groups of explosives which can be stowed together without significantly increasing the probability of an accident or, for a given quantity, the magnitude of the effects of such an accident.

Controlled Substance Licence (CSL) is issued by Worksafe NZ and is required for possession of Class 1 explosives, class 6.1A and 6.1B toxic agents or fumigants.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS) refers to an international standard which complements the United Nations numbered system of hazardous materials.

Hazard Division number refers to a numbered subdivision within the hazard classification code of an explosive.

Transfer refers to the movement of explosives from one mode of transport to another where the movement requires handling of packages or containers. Explosives transfer operations include but are not limited to loading and unloading of cargo vehicles, ships or aircraft. At any place where explosive transfer operations occur, the person in charge of the transfer must set up a Designated Transfer Zone (DTZ).

Workplace procedures refers to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, manufacturer's requirements, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the commercial road transport sector.

3 Assessment information

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, workplace procedures and legislative requirements.

This unit standard is intended for people who will transport Class 1 explosives by road. For training relating to the transfer of Class 1 Explosives, please refer to unit standard 33316, *Demonstrate knowledge of the transfer of Class 1 Explosives*.

Assessment material for this unit standard must be endorsed by the Hazardous Substances Professionals New Zealand (HSPNZ) Class 1 sub-group. Please contact tech@hspnz.co.nz for information about endorsement.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of legislation relating to the transportation of Class 1 Explosives.

Performance criteria

- 1.1 Basic principles and legal requirements of the Health and Safety at Work (Hazardous Substances) Regulations 2017 are described.
- 1.2 Basic principles and legal requirements of the Dangerous Goods Rule for transport of Class 1 Explosives are described.
- 1.3 Basic principles and legal requirements of the HSPNZ Code of Practice for the Transport and Transfer of Explosives are described.
- 1.4 Circumstances are identified when a Controlled Substance License of Class 1 Explosives is required.

Outcome 2

Demonstrate knowledge of the United Nations Identification system for Class 1 Explosives.

Performance criteria

- 2.1 Class 1 Explosives are identified and explained in terms of hazard divisions, compatibility groups and classification codes.

Range includes but is not limited to – risk categories, Globally Harmonized System (GHS) classification and categories.

Outcome 3

Demonstrate knowledge of the segregation of explosives and classification process of mixed loads.

Performance criteria

- 3.1 Goods which require segregation of Class 1 Explosives are identified.
- 3.2 Division identification of mixed loads of explosives for the purpose of transport are determined.
- 3.3 Load segregation of Class 1 Explosive loads based on Compatibility Group are determined.

Outcome 4

Explain road transport procedures for Class 1 Explosives.

Performance criteria

4.1 Load limits are explained.

Range road vehicles, six metre containers, three metre containers.

4.2 Vehicle separation requirements are explained.

Range parking, convoy.

4.3 Vehicle stopping requirements are explained.

Range railway crossings, refuelling, parking, vehicle breakdown.

4.4 Signage determination and placement are explained.

4.5 Transport requirements during the hours of darkness are explained.

4.6 Transport requirements for small packages and limited quantities of Class 1 Explosives are explained.

Outcome 5

Demonstrate knowledge of the documentation requirements for dangerous goods.

Performance criteria

5.1 Purpose of dangerous goods documentation is explained.

5.2 Key information about dangerous goods is identified and checked for accuracy.

5.3 Requirements of dangerous goods documentation are explained.

Range dangerous goods declaration, emergency response information, load plan, container or vehicle packing certificate, additional information.

Outcome 6

Demonstrate knowledge of the initial response required for a dangerous goods emergency.

Performance criteria

- 6.1 Emergency response information is described.
- Range Australian and New Zealand Emergency Response Guide, SNZ HB 76 Dangerous Goods Initial Emergency Response Guide, Safety Data Sheets.
- 6.2 Initial actions that must be carried out in the event of an incident involving Class 1 Explosives are explained.

Outcome 7

Describe offences and penalties relating to the transportation of Class 1 Explosives.

Performance criteria

- 7.1 Offences and penalties listed in the HSNO Act 1996 and HSW(HS) Regulations 2017 are described.
- 7.2 Offences and penalties listed in the Land Transport (Offences and Penalties) Regulations 2005 are described.

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	30 November 2023	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the 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.