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| Title | Transport bulk hazardous substances by road | | |
| Level | 4 | Credits | 6 |

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| Purpose | <p>This unit standard is intended for the drivers of road transport vehicles that transport bulk hazardous substances, excluding flammable liquids.</p> <p>People credited with this unit standard are able to: describe legislation for the handling, use, and control of hazardous substances under the Health and Safety at Work (Hazardous Substances) Regulations 2017; demonstrate knowledge required of a driver for the bulk hazardous substance being transported by road; and transfer a bulk hazardous substance to and from a road transport vehicle.</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. |
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Guidance Information

- 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);
 - Land Transport Act 1998;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 [HSW (HS)];
 - Land Transport Rule: Dangerous Goods 2005;
 - Environment Protection Authority Notice. Hazardous Substances (Hazard Classification) Notice 2020. Available from: <https://www.epa.govt.nz/>;
 - Environment Protection Authority Notice. Hazardous Substances (Hazardous Property Controls) Notice 2017. Available from: <https://www.epa.govt.nz/>;
 - 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/>;
 - Environmental Protection Authority (EPA). (2013). *Approved Code of Practice for Flammable Gases and Oxygen Tank Wagons*. Available from: <https://www.worksafe.govt.nz/>;

- Worksafe. (2019). *Approved Code of Practice for Flammable liquids road tank wagons*. Available from: <https://www.worksafe.govt.nz/>;
- Environment Protection Authority. (2013). *Toxic, corrosive and ecotoxic liquids tank wagons*, HSNOCOP 39. Available from: <https://www.worksafe.govt.nz/>;
- Worksafe. (2017). *Filling of Below Ground Stationary Tanks by Pumping – Safe Work Instrument*. Available from: <https://www.worksafe.govt.nz/>.

Any new, amended or replacement Acts, regulations, Rules, 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

Approved Filler refers to a person who is approved by a compliance certifier to fill pressurised containers with compressed gases.

Operating equipment includes all pumps, valves, controls, hoses and connections, materials handling equipment, safety equipment and personal protective equipment used in the transfer of hazardous substances to and from any storage facility and road transport vehicle.

Compliance certificates refers to certificates issued by a compliance certifier.

Compliance certifier refers to a person approved to certify that the requirements of the HSW (HS) Regulations 2017 have been met.

Transported refers to the loading, transport, and discharge of the hazardous substance.

United Nations (UN) classifications refers to an international system of classification used to identify hazardous [chemicals](#) or classes of hazardous materials.

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

Compliance certification requirements are described in the HSW (HS) Regulations 2017. Where, for the transport of bulk gases, a driver must be an Approved Filler, additional questions must be answered by the candidate to meet the requirements of Part 15 (Gases under pressure) of the HSW (HS) Regulations 2017. For further information refer to Worksafe: <https://www.worksafe.govt.nz/topic-and-industry/hazardous-substances/guidance/substances/gases-under-pressure/>.

If the candidate is transporting more than one bulk hazardous substance in the same trip, they must be able to demonstrate the appropriate knowledge and skills for each substance.

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.

Outcomes and performance criteria

Outcome 1

Describe legislation for the handling, use, and control of hazardous substances under the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Performance criteria

- 1.1 The relationship between specific legal and formal requirements that governs the handling, use, and control of hazardous substances by drivers is described.
- Range HSNO Act, EPA Notices, HSW (HS) Regulations, Dangerous Goods Rule, Approved Codes of Practice, Safe Work Instruments.
- 1.2 The purpose and principles of the HSW (HS) Regulations 2017 are described in relation to the handling, use, and control of hazardous substances.
- 1.3 The hazard classification system is described in relation to the control of hazardous substances.
- Range substance properties, Globally Harmonized System (GHS) classification and categories.
- 1.4 Operator obligations and liabilities are described in accordance with the HSW (HS) Regulations 2017.
- Range general duties, offence and defence provisions, penalties and liabilities, rights of appeal, effects of compliance orders, conditions of compliance certificates.

Outcome 2

Demonstrate knowledge required of a driver for the bulk hazardous substance being transported by road.

Performance criteria

- 2.1 Hazard classification of the hazardous substance being transported is identified in accordance with EPA Notice Hazardous Substances (Hazard Classification) Notice 2020.
- Range UN classifications, GHS classifications.
- 2.2 Approved Codes of Practice and HSW Safe Work Instruments that apply to the hazardous substance being transported are identified.
- 2.3 Adverse effects of the hazardous substance being transported and the precautions required to eliminate or minimise these effects are described.
- Range injury and /or illness to people, damage to the environment.

- 2.4 Controls that apply to the hazardous substance being transported are identified in accordance with the HSW (HS) Regulations 2017 and EPA Notices.
- Range may include – flammable, toxic, ecotoxic, identification, packaging, disposal, emergency management, tracking.
- 2.6 Procedures to be adopted in the event of an incident or emergency involving the hazardous substance being transported are described.
- Range fire, loss of containment, breakdown, road crash, exposure.

Outcome 3

Transfer a bulk hazardous substance to and from a road transport vehicle.

Performance criteria

- 3.1 Operating equipment is inspected for state of repair, security, and availability. Any non-complying equipment is repaired, replaced, or reported.
- 3.2 Bulk hazardous substance is transferred safely to a road transport vehicle using operating equipment.
- 3.3 Bulk hazardous substance is transferred safely from a road transport vehicle using operating equipment.

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| Replacement Information | This unit standard replaced unit standard 25986. |
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| 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 |
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| Registration | 1 | 30 November 2023 | N/A |

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| 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 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.