

Title	Operate a gantry vehicle for transportation of waste		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: apply knowledge of specific care and safety requirements to operate a gantry vehicle; load a gantry bin from the ground onto a gantry vehicle and secure the bin for travel; unload waste from a gantry bin and complete the relevant documentation; and place a gantry bin from a gantry vehicle on the ground and prepare the vehicle for travel.
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Classification	Commercial Road Transport > Transportation of Waste and Recoverable Resources
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Available grade	Achieved
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Prerequisites	Drivers must hold a current full driver licence and/or endorsement appropriate to the class of vehicle being driven. Unit 17593, <i>Apply safe work practices in the workplace</i> , or demonstrate equivalent knowledge and skills.
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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:
 - Health and Safety at Work Act 2015;
 - Land Transport Act 1998;
 - Resource Management Act 1991;
 - Health and Safety at Work Regulations 2016;
 - Traffic Regulations 1976;
 - Land Transport (Driver Licensing) Rule 1999 (Rule 91001);
 - Land Transport Rule: Vehicle Repair 1998 (Rule 34001);
 - Land Transport Rule: Vehicle Standards Compliance 2002;
 - Local authority regulations and by-laws;
 - Waka Kotahi New Zealand Transport Agency (NZTA). *Official New Zealand Road Code*. (Applicable to the vehicle being driven). Available from: <https://www.nzta.govt.nz/roadcode>;
 - Waste Management Institute of New Zealand (2022). *Health and Safety Guidelines for the Solid Waste and Resource Recovery Sector – part two (Chapter 30, Gantry collection vehicles)*. Available from: <https://www.wasteminz.org.nz/sector-groups>.

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

2 Definitions

Gantry vehicle refers to a heavy rigid motor vehicle to which is mounted a gantry framework which is operated by hydraulic power. Gantry vehicle is also referred to as skip truck.

Gantry bin is also referred to as a skip bin.

Workplace procedures refer 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 waste transport sector.

3 Assessment information

While every assessment situation may not provide opportunity for evidence of every performance criterion, evidence may be obtained over a period of time on the job, over several assessment opportunities, or through other means such as attestation and the use of questioning.

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

Apply knowledge of specific care and safety requirements to operate a gantry vehicle.

Performance criteria

1.1 Cleaning and non-technical maintenance of the vehicle are undertaken.

Range daily, periodical.

1.2 Safety items are used and stored.

Range gloves, helmet, footwear, high visibility vest, first aid kit, broom and shovel, and, where provided on the vehicle, fire extinguisher, spill kit.

1.3 Procedure for handling or non-handling of visible hazardous materials from gantry bin is demonstrated.

- 1.4 Load assessment is conducted on the bin to ensure that load distribution, weight distribution, and dimensions are safe and legal for transportation.

Outcome 2

Load a gantry bin from the ground onto a gantry vehicle and secure the bin for travel.

Performance criteria

- 2.1 Procedural checks and any necessary corrections are made to ensure there is safe clearance for the lifting operation.
- Range clearances – overhead, ground, side, rear.
- 2.2 The rear of the vehicle is positioned to allow safe and efficient lifting and placement of the bin.
- 2.3 The bin is prepared for lifting and transportation.
- Range disconnection (where fitted) of – anchorage and/or fastening systems, electrical connections; preparation for transport – doors closed and secured, or load covered.
- 2.4 Side lifters, if fitted, are stowed in the hopper, and lifting chains are connected to the bin.
- 2.5 Power take off (PTO) is engaged, lifting arms positioned, lifting chains connected to the bin, and the bin is lifted and loaded squarely onto the vehicle deck deploying stabiliser legs.
- 2.6 Prior to travel, and with lifting chains tensioned and connected to the bin lifting lugs, the PTO is disengaged, and the bin is secured to the vehicle deck with tie downs.

Outcome 3

Unload waste from a gantry bin and complete the relevant documentation.

Performance criteria

- 3.1 Vehicle is positioned on level, stable ground, PTO is engaged, stabiliser legs are deployed, and handbrake is engaged, to ensure vehicle safety and stability for unloading.
- 3.2 Tipping chains are connected to the rear of the bin, and doors opened and secured to the side of the bin or cover is removed and stored.
- 3.3 Arm control lever is operated, load discharged, and PTO disengaged.
- 3.4 Documentation for disposal of waste is completed.

Outcome 4

Place a gantry bin from a gantry vehicle on the ground and prepare the vehicle for travel.

Performance criteria

- 4.1 Visual check is undertaken to ensure the ground space for the bin is level, stable, and clear, to confirm there will be no obstruction to others once the bin is placed, and to ensure there is safe clearance for the operation.
- Range clearances – overhead, ground, side, rear.
- 4.2 Hazard lights are switched on, and the vehicle is positioned to allow lifting and placement of the bin in the required space.
- 4.3 Visual check is undertaken to ensure the lifting chains are connected to the bin, PTO is engaged, and the stabiliser legs are deployed.
- 4.4 Bin is lifted and placed in the required space.
- 4.5 Where power reconnection is required, the sealing rings for power leads to the bin are fitted securely to prevent ingress of water to the connection and to prevent arcing.
- 4.6 Lifting chains are released from the bin, stabiliser legs are retracted, lifting chains are secured, gantry is returned to the travel position, and PTO is disengaged.

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 November 1999	31 December 2022
Review	2	30 October 2003	31 December 2022
Review	3	18 July 2008	31 December 2022
Review	4	29 April 2021	31 December 2025
Review	5	29 June 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 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.