

Title	Demonstrate knowledge of the self-supervision requirements for overweight vehicles crossing bridges		
Level	4	Credits	4

Purpose	<p>This unit standard is for people who wish to self-supervise when crossing identified bridges with overweight vehicles as required by Waka Kotahi New Zealand Transport Agency's Overweight Permit Self Supervision special conditions.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: overweight permits for overweight vehicles; the location of the vehicle on the trip route and the location of bridges using road and bridge location markers; and describe the supervision of overweight vehicles when crossing bridges.</p>
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Classification	Commercial Road Transport > Heavy Haulage
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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;
 - Land Transport Act 1998;
 - Traffic Regulations 1976;
 - Land Transport (Road User) Rule 2004;
 - Land Transport Rule: Heavy Vehicles 2004;
 - Land Transport Rule: Traffic Control Devices 2004;
 - Land Transport Rule: Vehicle Dimensions and Mass 2016;
 - Waka Kotahi New Zealand Transport Agency (NZTA). (2019). *Class 2 load pilot course guide* (Part 5, Traffic control at bridges being crossed by overweight vehicles). Available from: <https://www.nzta.govt.nz/resources/>;
 - Waka Kotahi New Zealand Transport Agency. (current edition). *The Official New Zealand Road Code for Heavy Vehicle Drivers*. (For information relating to safety at level crossings). Available from: <https://www.nzta.govt.nz/resources/>;
 - Waka Kotahi New Zealand Transport Agency. (current edition). *Vehicle dimension and mass permitting manual*. Available from: <http://www.nzta.govt.nz/resources/vehicle-dimension-and-mass-permitting-manual/>;
 - Waka Kotahi New Zealand Transport Agency. *Overdimension vehicle route maps (OVRM)*. Available from: <http://nzta1.cwp.govt.nz/resources/overdimension-veh-route-maps/full-index-list.html>;

- Waka Kotahi New Zealand Transport Agency. *Overweight permit route maps (OPRM)*. Available from: <http://nzta1.cwp.govt.nz/resources/overweight-permit-route-maps/full-index-list.html>;
- *The BESS Quick Guide*. Available from: <https://resources.mito.org.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

BESS refers to Waka Kotahi NZTA policy on Bridge Engineering Self Supervision, as contained in the VDAM manual.

A *bridge* refers to a structure designed to carry a road or path over an obstruction (such as a river, road, or rail line) by spanning it and includes culverts with a waterway area greater than 3.4m² and stock underpasses.

RCA refers to Road Controlling Authority, which is the authority, body or persons having control of the road.

The *Road Code* refers to the Official New Zealand Road Code for Heavy Vehicle Drivers.

VDAM refers to *Vehicle dimension and mass permitting manual*.

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 transportation of overdimension and overweight vehicles and/or loads.

3 Assessment information

Credit for this unit standard may be used as evidence to support application for a candidate to be a Waka Kotahi NZTA BESS (Bridge Engineering Self Supervision) approved driver.

For the purposes of assessment, candidates will be supplied with a scenario outlining a specified trip route. The scenario will be based on a 'single trip' Waka Kotahi NZTA overweight permit.

During assessment against this unit standard, a candidate may have access to the following documents and aids:

- a calculator;
- *Class 2 load pilot course guide*;
- *VDAM manual*;
- *The BESS Quick Guide*.

Self-developed assessment material for this unit standard must be endorsed by Waka Kotahi NZTA. Please refer to CMR 0014 for further details.

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

Demonstrate knowledge of overweight permits for overweight vehicles.

Performance criteria

- 1.1 Key information is located in an overweight permit relating to a specified trip.
- Range registration number of vehicle, type of permit, travel dates, described route, mass limits of the vehicle and load, route structures, relevant restrictions as to position and speed of vehicle for specified bridges.
- 1.2 The use of overweight permits is described in terms of the general conditions outlined in the VDAM manual.
- Range conditions for production on demand and carriage of permit, conditions imposed by RCAs, types of road covered by the permit, transferability of an overweight vehicle permit.
- 1.3 Overweight permits are described in terms of requirements for crossing bridges not listed on the permit, local authority roads, and railway level crossings.

Outcome 2

Demonstrate knowledge of the location of the vehicle on the trip route and the location of bridges using road and bridge location markers.

Performance criteria

- 2.1 Information available on state highways to establish vehicle location is described.
- Range reference stations (RS), kilometre marker posts (KMP), bridge abutment signs, established route positions (ERP).
- 2.2 Vehicle location on the route is identified by reference stations (RS) and route position (RP) markers, and the position of RS and RP markers.
- 2.3 The location of bridges on a route map is described in terms of information provided on an overweight permit.
- Range route position, bridge name, distance between consecutive bridges;
a minimum of three bridges is required.

2.4 Bridges are located on a map by reference to OPRM and attachments to the overweight permit.

Range a minimum of three bridges are required.

Outcome 3

Describe the supervision of overweight vehicles when crossing bridges.

Performance criteria

3.1 Supervision of overweight vehicles when crossing bridges is described in terms of the requirements of external bridge supervisors.

Range authorisation, timing for their notification, information required to be provided, rendezvous with bridge supervisors.

3.2 Self-supervision of overweight vehicles when crossing bridges is described in terms of the VDAM manual.

Range crossing position – central on beam, own lane, offset by specified distance from nearside kerb;
speed restrictions – crawl, 20 km/h, 50 km/h;
separation distance required from other heavy motor vehicles.

3.3 The requirements and procedures to follow for traffic control when self-supervising overweight vehicles crossing bridges are described.

Range requirements – Overweight Permit.

3.4 Requirements to be met by a driver for BESS registration are described.

3.5 Breaches of bridge engineering supervision requirements and non-compliance with overweight permit conditions are described in terms of the VDAM rule and/or manual.

Range critical infringements, other infringements, consequences of driver non-compliance.

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	20 November 2006	31 December 2017
Review	2	25 February 2008	31 December 2017
Review	3	16 July 2015	31 December 2024
Review	4	28 April 2022	31 December 2025
Revision	5	29 June 2023	N/A
Revision	6	25 January 2024	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.