

Title	Diagnose faults in heavy vehicle and equipment chassis		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to diagnose faults in heavy vehicle and equipment chassis.
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Classification	Motor Industry > Vehicle Bodywork
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references
Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rules.
- 2 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 3 Land Transport Rules are available online at <https://www.nzta.govt.nz/>.
The VIRM is available online at <http://vehicleinspection.nzta.govt.nz/>.
- 4 Definitions
Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.
Heavy Vehicle refers to classes MD3, MD4, ME, NB, TC and TD as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>; or has a gross vehicle mass that exceeds 3500kg and is not of a class specified in the Vehicle equipment standards classifications.
Service information refers to information such as technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
- 5 Assessment
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements.
- 6 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

- 7 Chassis repairs to vehicles registered for use on the road must comply with the requirements of the Land Transport Rules in addition to any special requirements by the vehicle manufacturer about the types of repair that may be required.

Outcomes and performance criteria

Outcome 1

Diagnose faults in heavy vehicle and equipment chassis.

Performance criteria

- 1.1 The type of chassis is identified from service information to assist in determining faults.
- 1.2 The chassis is inspected for signs of damage requiring repair and likely to result in chassis misalignment, and the results are noted.
- 1.3 Chassis alignment is checked, and any misalignment is noted.
Range datum points, levelling requirements, alignment measurements.
- 1.4 From the results of an inspection, the need for repair and chassis realignment is determined, and a recommendation is made for the type of repair necessary.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 1994	31 December 2022
Review	2	21 February 1999	31 December 2022
Review	3	25 February 2008	31 December 2022
Review	4	29 July 2021	31 December 2027
Review	5	25 May 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.