

Title	Diagnose and rectify driveline faults on heavy vehicles or equipment		
Level	4	Credits	3

Purpose	<p>This unit standard is intended for people in the automotive heavy repair industry.</p> <p>People credited with this unit standard are able to: diagnose driveline faults on heavy vehicles or equipment; and rectify driveline faults on heavy vehicles or equipment.</p>
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Classification	Motor Industry > Automotive Transmission Systems
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Available grade	Achieved
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Prerequisites	Appropriate driver licence for the vehicle or equipment being driven.
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Guidance Information

- 1 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. This includes the knowledge and use of suitable tools and equipment.
- 2 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
The Official New Zealand Road Code.
- 3 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.
- 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. *Suitable tools and equipment* refer to industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- 5 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Diagnose driveline faults on heavy vehicles or equipment.

Performance criteria

- 1.1 The vehicle is operated, and driveline fault symptoms and details of when they occur are noted.
- 1.2 Driveline components are checked while in place for wear, damage, security, and vibration.

Range may include but is not limited to – shafts, shaft welds, universals, slip joints, gaiters and seals, support bearings, flanges.

Outcome 2

Rectify driveline faults on heavy vehicles or equipment.

Performance criteria

- 2.1 All driveshafts are removed from the vehicle or equipment, the universal joints are checked for wear and damage, and faulty components are replaced with approved replacement parts.
- 2.2 All driveshafts and connecting flanges are checked for runout and remedial action taken where the runout exceeds the maximum allowed by the manufacturer.
- 2.3 All driveshafts are fitted in the vehicle or equipment and checked.

Range may include but is not limited to – universal joints, recommended driveshaft angles, driveshaft balance.

Planned review date	31 December 2025
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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	27 May 2021	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 MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.