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| Title | Repair road transport heavy vehicle steering systems | | |
| Level | 4 | Credits | 4 |

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| Purpose | People credited with this unit standard are able to: diagnose and rectify road transport heavy vehicle steering component faults; and check and adjust power assisted steering for road transport heavy vehicles. |
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| Classification | Motor Industry > Vehicle Steering and Suspension |
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| Available grade | Achieved |
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| Prerequisites | Class 2, 3, 4, or 5 driver licence (if road testing the vehicle). |
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Guidance Information

- 1 It is recommended that people hold credit for Unit 30519, *Service steering and suspension systems on a vehicle or machine* before being assessed against this unit standard.
- 2 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.
- 3 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rule: Heavy Vehicles 2004;
Land Transport Rule: Steering Systems 2001;
Land Transport Rule: Vehicle Repair 1998;
The Official New Zealand Road Code.
- 4 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.
- 5 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.

- 6 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.
- 7 Road testing of heavy vehicles should only be undertaken by people holding the appropriate licence class or endorsement for the vehicle. For performance criterion 1.2, the candidate is required to accompany the driver to observe any steering faults if they do not hold the appropriate licence to drive the vehicle themselves.

Outcomes and performance criteria

Outcome 1

Diagnose and rectify road transport heavy vehicle steering component faults.

Range may include – steering shaft, steering box, drop arm, drag link, track rod, steering arms, king pins, wheel bearings, spring shackles, U-bolts.

Performance criteria

- 1.1 The vehicle steering components are inspected for security and wear.
- 1.2 The vehicle is arranged to be road tested and any steering faults observed are noted.

Range may include – wander, shimmy, oversteer, understeer, recovery.
- 1.3 Faulty steering components are returned to full serviceability.

Range may include – adjust, repair, replace.
- 1.4 The tyres are inspected for indications of steering faults.

Range toe-in, toe-out, camber.
- 1.5 Arrangements are made for steering angles to be checked and adjusted.

Outcome 2

Check and adjust power assisted steering for road transport heavy vehicles.

Performance criteria

2.1 The power assisted steering is checked for oil leaks, wear, security and correct operation, and the results noted.

Range may include – oil pump drive, oil pump, hoses, relief valve, ram security, ram movement, linkage.

2.2 Steering stops are adjusted to ensure the fixed stop clearance is within the limits.

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| 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 |
| Revision | 3 | 28 April 1999 | 31 December 2022 |
| Review | 4 | 25 January 2008 | 31 December 2022 |
| Review | 5 | 29 July 2021 | 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 MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.