

<b>Title</b>	<b>Demonstrate knowledge of heavy vehicle and machine power steering systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	This theory-based unit standard is for people in the automotive heavy repair industry. People credited with this unit standard are able to demonstrate knowledge of: linkage type power-assisted steering systems; integral type power-assisted steering systems; an articulated type steering system; and a hydrostatic steering system.
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<b>Classification</b>	Motor Industry > Vehicle Steering and Suspension
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<b>Available grade</b>	Achieved
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**Guidance Information**

- 1 Legislation relevant to this unit standard includes but is not limited to – Land Transport Rules: Steering Systems 2001, Rule 32003/1; Vehicle Repair 1998, Rule 34001.
- 2 Land Transport Rules are produced for the Minister of Transport by Land Transport New Zealand. These rules are available online at <http://www.landtransport.govt.nz/rules/>.
- 3 Definitions  
*Heavy vehicle* refers to a motor vehicle that is of Class MD3, MD4, ME, NB, NC, TC or TD; or has a gross vehicle mass that exceeds 3500 kg and is not of a class specified in the Table of vehicle classes as listed from Land Transport New Zealand website <http://www.landtransport.govt.nz/publications/infosheets/infosheet-1-10.html#classes>.  
*Service information* may include but is not limited to – technical information of a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; and detailed illustrations. This can be accessed in hard copy or electronic format and is normally sourced from the manufacturer.

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**Outcomes and performance criteria**

**Outcome 1**

Demonstrate knowledge of linkage type power-assisted steering systems.

**Performance criteria**

- 1.1 The layout of a linkage type steering system is described in accordance with service information.
- 1.2 The operation of a linkage type system is described in accordance with service information and legislative requirements.

**Outcome 2**

Demonstrate knowledge of integral type power-assisted steering systems.

**Performance criteria**

- 2.1 The layout of an integral type power-assisted steering system is described in accordance with service information.
- 2.2 The operation of an integral type power-assisted system is described in accordance with service information and legislative requirements.

**Outcome 3**

Demonstrate knowledge of an articulated type steering system.

**Performance criteria**

- 3.1 The layout of an articulated type steering system is described in accordance with service information.
- 3.2 The operation of an articulated type system is described in accordance with service information and legislative requirements.

**Outcome 4**

Demonstrate knowledge of a hydrostatic steering system.

**Performance criteria**

- 4.1 The layout of a hydrostatic steering system is described in accordance with service information.
- 4.2 The operation of a hydrostatic system is described in accordance with service information and legislative requirements.

<b>Replacement information</b>	This unit standard and unit standard 24432 were replaced by unit standard 31231.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	21 February 1999	31 December 2020
Revision	2	16 April 2003	31 December 2020
Review	3	25 January 2008	31 December 2020
Review	4	26 July 2018	31 December 2020

**Consent and Moderation Requirements (CMR) reference**

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.