

<b>Title</b>	<b>Test, diagnose, and rectify vehicle hydraulic power-assisted steering system faults</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to: pressure test and diagnose faults in a hydraulic power-assisted steering system; and rectify faults in a hydraulic power-assisted 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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<b>Prerequisites</b>	Appropriate driver licence for the vehicle being driven.
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### Guidance Information

- 1 It is recommended that people hold credit for Unit 24426, *Demonstrate knowledge of diagnosing and rectifying vehicle power-assisted steering system faults* 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;  
Resource Management Act 1991, s15 Discharge of contaminants into environment;  
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.

*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.

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## Outcomes and performance criteria

### Outcome 1

Pressure test and diagnose faults in a hydraulic power-assisted steering system.

#### Performance criteria

- 1.1 Information is obtained from the customer to help diagnose the fault and is recorded.
- 1.2 The vehicle is road tested to verify the customer description of the steering system fault.
- 1.3 The steering system is inspected to identify any external faults.
- 1.4 The vehicle is prepared for testing the power-assisted steering system.
- 1.5 The steering pump pressures are checked and recorded.
- 1.6 The cause of any abnormal results is determined.
- 1.7 A report is given to the supervisor with a repair recommendation.

### Outcome 2

Rectify faults in a hydraulic power-assisted steering system.

#### Performance criteria

- 2.1 The power steering fluid is drained, collected, and disposed of in an environmentally safe method.
- 2.2 Faulty power-assisted steering components are replaced, in a manner that restores full serviceability.  
  
Range        reservoir, pump, steering rack and/or steering box.
- 2.3 The power-assisted steering system is primed and topped up with the specified hydraulic fluid.
- 2.4 All air is bled from the system.
- 2.5 The power-assisted steering system is tested.

2.6 The vehicle is road tested to ensure the steering operation.

<b>Replacement information</b>	This unit standard, unit standard 24426, and unit standard 24428 replaced unit standard 901.
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<b>Planned review date</b>	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	25 January 2008	31 December 2022
Review	2	29 July 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.