

Title	Remove and replace steering and suspension components on motor vehicles or machines		
Level	3	Credits	3

Purpose	This unit standard is for people who wish to enter or are employed in the motor industry. People credited with this unit standard are able to remove and replace steering and suspension components.
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Classification	Motor Industry > Vehicle Steering and Suspension
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Available grade	Achieved
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Entry information	
Recommended skills and knowledge	Unit 21721, <i>Demonstrate knowledge of vehicle steering and suspension systems.</i>

Explanatory notes

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, service information, company and legislative requirements (this includes the knowledge and/or use of suitable tools and equipment).
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of including updated amendments to, and replacements of – Health and Safety at Work Act 2015; Traffic Regulations 1976, Section 70; Land Transport Rules: Steering Systems 2001, Rule 32003/1; Vehicle Repair 1998, Rule 34001; Low Volume Vehicle Technical Association Inc (LVVTA) Code and Standards.
- 3 Land Transport Rules are available online [at https://www.nzta.govt.nz/](https://www.nzta.govt.nz/). LVVTA Code and Standards relating to suspension system modifications or lowering kits can be obtained online at <http://www.lvvta.org.nz/>.
- 4 Definitions
Company requirements refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications and legislative requirements.
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 may be accessed from the manufacturer. *Suitable tools and equipment* means 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 Range
Assessment against this unit standard applies to removing and replacing both front and rear suspension, and steering components.
- 6 Assessment
For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and evidence requirements

Outcome 1

Remove steering and suspension components.

Evidence requirements

- 1.1 Suitable tools and equipment to enable the steering and suspension components to be removed are selected and used.
- 1.2 Ancillary fittings are identified and isolated and/or removed, without damage to them and other vehicle parts.
- Range may include but is not limited to – brake system and adjacent fittings.
- 1.3 Worn and damaged steering components are removed.
- Range may include but is not limited to – ball joints, bushes, linkages, rack, tie rod ends.
- 1.4 Worn and damaged suspension components are identified and removed.
- Range may include but is not limited to – strut, shock absorbers, springs, control arms, stabiliser bar, beam, sensors, compressor and air spring on air suspensions.

Outcome 2

Replace steering and suspension components.

Evidence requirements

- 2.1 Suitable tools and equipment that enable the suspension components to be replaced are identified and used.

- 2.2 Steering and suspension components are procured and fitted, and operate in accordance with service information.
- 2.3 Component bearings, bushes, seals, and protective coverings or gaiters are replaced.
- 2.4 Ancillary fittings are fitted and operate in accordance with service information.
- 2.5 Arrangements are made for the wheel alignment to be checked.
- 2.6 Tools and equipment are cleaned and put away, and the work area is cleaned.

Replacement information	<p>This unit standard and unit standard 24025 replaced unit standard 896 and unit standard 15657.</p> <p>This unit standard was replaced by unit standard 30519.</p>
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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	26 November 2007	31 December 2018
Review	2	21 April 2016	31 December 2020
Review	3	28 September 2017	31 December 2020

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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing

to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is expiring