

## Diagnose and rectify faults in steer axle and linkage systems on a forklift

**Level** 4

**Credits** 3

**Purpose** This unit standard is for people in the automotive materials handling equipment repair industry. People credited with this unit standard are able to diagnose and rectify faults in steer axle and linkage systems on a forklift.

**Subfield** Motor Industry

**Domain** Vehicle Steering and Suspension

**Status** Registered

**Status date** 25 January 2008

**Date version published** 25 January 2008

**Planned review date** 31 December 2012

**Entry information** Recommended: Unit 24438, *Demonstrate knowledge of tractor or machine wheel steering systems, and their diagnosis and repair procedures*, or demonstrate equivalent knowledge and skills.

**Accreditation** Evaluation of documentation and visit by NZQA and industry.

**Standard setting body (SSB)** NZ Motor Industry Training Organisation (Incorporated)

**Accreditation and Moderation Action Plan (AMAP) reference** 0014

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

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### Special notes

- 1 Legislation and publications relevant to this unit standard include but are not limited to – Health and Safety in Employment Act 1992; New Zealand Standards NZS/ANSI/ITSDF B56.1:2005 *Safety standard for low lift and high lift trucks*; NZS/AS 2359 series *Powered industrial trucks*.
- 2 New Zealand Standards are available from Standards New Zealand, Private Bag 2439, Wellington; phone 04 498 5990; or website <http://www.standards.co.nz>.

3 Definitions

*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.

*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.

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

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## Elements and performance criteria

### Element 1

Diagnose faults in steer axle and linkage systems on a forklift.

Range manual, power.

### Performance criteria

- 1.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, forklift safety, workshop safety, environmental safety, tools and equipment safety.

- 1.2 Faults in manual steer axle and linkage are determined in accordance with service information.

Range visual inspection of components for damage and wear, field testing for operation.

- 1.3 Faults in power assisted steering axle and linkage are identified in accordance with service information.

Range visual inspection of components for damage and wear, field testing for operation, leakage and wear.

### Element 2

Rectify faults in steer axle and linkage systems on a forklift.

### Performance criteria

- 2.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, forklift safety, workshop safety, environmental safety, tools and equipment safety.

- 2.2 Suitable tools and equipment are selected and used that enable faults to be rectified in accordance with service information.
- 2.3 Minor faults are rectified and the system adjusted in accordance with service information.
- Range those faults which do not require extensive dismantling and repair.
- 2.4 Manual steering system faults that require dismantling and repair are rectified in accordance with service information.
- Range may include but is not limited to – replacement, repair.
- 2.5 Power assisted axle and linkage steering system faults that require dismantling and repair are rectified in accordance with service information.
- Range includes but is not limited to – safe work area established, worn parts and seals identified and replaced, damaged parts identified and replaced, adjustments made, hydraulic tests.
- 2.6 Steering geometry is checked and adjusted in accordance with service information.

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**Please note**

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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.

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**Comments on this unit standard**

Please contact the NZ Motor Industry Training Organisation (Incorporated) [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.