

<b>Title</b>	<b>Diagnose and repair faults in heavy machine and equipment suspension systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: identify and analyse heavy machine and equipment suspension component failure; and repair heavy machine and equipment suspension components.
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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 It is recommended that people hold credit for Unit 24434, *Demonstrate knowledge of heavy machine and equipment suspension systems, and diagnosing system failure* 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: Vehicle Repair 1998.
- 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.

- 6 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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## Outcomes and performance criteria

### Outcome 1

Identify and analyse heavy machine and equipment suspension component failure.

#### Performance criteria

- 1.1 The suspension is inspected, and the faulty component(s) identified.
- Range may include – springs, trunnions, beams, bearings, bushes, bolts, pivots, welds, rivets; wear, fracture, cracks, bending, misalignment, security.
- 1.2 The causes of the suspension failure are analysed, and conclusions reached recorded.
- 1.3 A repair procedure recommendation is made based on an analysis of the suspension failure.

### Outcome 2

Repair heavy machine and equipment suspension components.

#### Performance criteria

- 2.1 Faulty component(s) are returned to full serviceability, and a recommendation made to rectify any contributory causes.
- Range replace with approved replacement parts, repair, adjust.
- 2.2 The suspension system is lubricated and checked for height adjustment and operation.

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<b>Replacement information</b>	This unit standard and unit standard 24434 replaced unit standard 2330.
<b>Planned review date</b>	31 December 2025

**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

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

0014

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.