Title	Describe heavy vehicle and machine steering and suspension systems, and system diagnosis				
Level	4		Credits	4	
Purpose	·		nd machine stee	andard are able to describe ering and suspension systems; stem diagnosis.	
Classification		Motor Industry >	Vehicle Steerin	ng and Suspension	

Classification	Motor Industry > Vehicle Steering and Suspension		
Available grade	Achieved		

## **Guidance Information**

- 1 It is recommended that people hold credit for Unit 30566, *Demonstrate knowledge of steering and suspension systems*, before being assessed against this unit standard.
- Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015 and any subsequent amendments or replacements.

#### 4 Definitions

Company requirements refers 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.

Heavy vehicle may include – 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 New Zealand Transport Agency website <a href="https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/#Registration-classification">https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/#Registration-classification</a>.

Machines may include – forklifts, earth-moving equipment, grader equipment, loaders, dozers, tractors, agricultural equipment, dump trucks, prime movers; electric machines, including – forklift, walk-behind pallet, ride-on pallet, reach truck, order picker, counterbalance truck, turret truck.

Service information may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

# Outcomes and performance criteria

#### **Outcome 1**

Describe heavy vehicle and machine steering systems.

## Performance criteria

1.1 Steering system operation is described.

Range clutch steering, power-assisted, articulated (pivot), hydrostatic,

steering tag axle.

## Outcome 2

Describe heavy vehicle and machine suspension systems.

## Performance criteria

2.1 Suspension system operation is described.

Range pneumatic, flexible, rigid, semi-rigid, hydro-pneumatic.

#### Outcome 3

Describe heavy vehicle and machine steering and suspension system diagnosis.

#### Performance criteria

3.1 Methods of diagnosing steering and suspension system faults are described.

Replacement information	This unit standard replaced unit standard 16112 and unit standard 24432.
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Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 July 2018	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at http://www.nzga.govt.nz/framework/search/index.do.

#### Comments on this unit standard

Please contact MITO New Zealand Incorporated <u>info@mito.org.nz</u> if you wish to suggest changes to the content of this unit standard.