

<b>Title</b>	<b>Check and rectify driveline faults on outdoor powered equipment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	This unit standard is for people in the outdoor power equipment repair industry. People credited with this unit standard are able to check and rectify faults in driveline components fitted to outdoor powered equipment, and overhaul universal and constant velocity (CV) joints.
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<b>Classification</b>	Motor Industry > Automotive Transmission Systems
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to – Health and Safety in Employment Act 1992.
- 2 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.
- 3 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.
- 4 Recommended entry information: Unit 24328, *Demonstrate knowledge of driveline components used on outdoor powered equipment*, or demonstrate equivalent knowledge and skills.

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### Outcomes and performance criteria

#### Outcome 1

Check and rectify faults in driveline components fitted to outdoor powered equipment.

#### Performance criteria

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

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

1.2 Suitable tools and equipment are selected and used to enable drivelines to be checked, and faults rectified, in accordance with service information.

1.3 The machine is operated to check driveline operation, and any faults found noted, in accordance with service information.

Range noticeable vibration, noise, take-up.

1.4 Driveline components are checked on the machine for wear and damage, and any faults noted, in accordance with service information.

Range shafts, joints, rubber gaiters and seals, support bearings.

1.5 All driveline components are checked to ensure they are securely attached and in compliance with manufacturer specifications.

Range shafts, joints, support bearings, engine and transmission mounts, differential and driving hubs.

1.6 The driveshaft and its connecting flanges are checked for runout, and remedial action is taken where runout is outside the maximum allowed by the manufacturer.

## Outcome 2

Overhaul universal and CV joints.

### Performance criteria

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

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

2.2 Suitable tools and equipment are selected and used to enable the joints to be overhauled in accordance with service information.

2.3 The faulty shaft is removed from the machine in the manner prescribed by the manufacturer.

2.4 The joint is disassembled and cleaned to enable inspection of the parts for damage and wear in accordance with service information.

2.5 The joint is assembled in accordance with service information. Any faults are rectified to meet manufacturer specifications.

- 2.6 The assembled shaft is installed on the equipment in accordance with service information.

<b>Replacement information</b>	This unit standard and unit standard 24328 replaced unit standard 15417.
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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	25 February 2008	31 December 2020
Review	2	26 April 2018	31 December 2020

<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>.