

Title	Demonstrate knowledge of automotive continuously variable transmission (CVT) operation and repair procedures		
Level	3	Credits	4

Purpose	This unit standard is for people in the automotive repair industry. People credited with this unit standard are able to demonstrate knowledge of CVT operation and repair procedures.
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Classification	Motor Industry > Automotive Transmission Systems
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Available grade	Achieved
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Guidance Information

Definition

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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of CVT operation.

Performance criteria

1.1 Transmission construction is described in accordance with service information.

Range features, identification of components, layout of components; pulley-based CVT system, toroidal CVT system, hydrostatic CVT system.

1.2 Transmission operation in each selection is explained in accordance with service information.

Range parking range, reverse range, neutral, drive ranges.

Outcome 2

Demonstrate knowledge of CVT repair procedures.

Performance criteria

- 2.1 The importance of cleanliness when working with transmission components is identified in accordance with service information.

 Range contamination, precise machining tolerances and close operating fits of components, damage and premature failure.

- 2.2 Faults which affect the transmission operation are described in accordance with service information.

 Range includes but is not limited to – contamination, leakage, incorrect adjustments, lack of service, external factors.

- 2.3 Servicing and repair procedures are described in accordance with service information.

 Range fluid top up and changes using specific CVT fluid type for the transmission; filter changes; adjusting, testing, and fault diagnosis; dismantling transmission; reassembling transmission.

Replacement information	This unit standard and unit standard 29373 were replaced by unit standard 30562. This unit standard replaced unit standard 15419.
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This unit standard is expiring. Assessment against this unit standard must take place by the last date for assessments 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 October 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>.