

Title	Demonstrate knowledge of electric power steering (EPS) systems		
Level	3	Credits	1

Purpose	This theory-based unit standard is for people in the automotive repair industry. People credited with this unit standard are able to demonstrate knowledge of EPS systems.
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Classification	Motor Industry > Vehicle Steering and Suspension
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Available grade	Achieved
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Guidance Information

- 1 Definition
Manufacturer design specifications refer to specifications provided by the manufacturer of the component(s) or system(s) provided by that manufacturer. This may include specifications relating to principles of operation, features and benefits, descriptions, and design criteria.
- 2 Recommended skills and knowledge prior to entry: Unit 21721, *Demonstrate knowledge of vehicle steering and suspension systems*.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of EPS systems.

Performance criteria

- 1.1 Types of EPS systems are described in accordance with manufacturer design specifications.
 Range includes but is not limited to – column type, pinion type, rack type, double pinion type.
- 1.2 An EPS system circuit layout is described in block diagram form in accordance with manufacturer design specifications.
 Range one of – column type, pinion type, rack type, double pinion type.
- 1.3 Features of an EPS system compared to a hydraulic power-assisted system are described in accordance with manufacturer design specifications.

1.4 The operating principle of an EPS is described in accordance with manufacturer design specifications.

Range mechanical construction, electronic construction.

1.5 The functions of EPS components are described in accordance with manufacturer design specifications.

Range includes but is not limited to – torque sensor, electronic control unit, motor.

Replacement information	This unit standard and unit standard 21721 were replaced by unit standard 30566.
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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Status information and last date for assessment for superseded versions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 January 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>.

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