

Title	Troubleshoot, diagnose, and repair faults in automotive electronic locking systems		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: prepare to troubleshoot faults; and troubleshoot, diagnose, and repair faults in automotive electronic locking systems.
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Classification	Mechanical Engineering > Locksmithing
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Available grade	Achieved
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Guidance Information

- 1 Legislation
Health and Safety at Work Act 2015.
- 2 Definitions
Accepted industry practice refers to codes of practice and standardised procedures accepted by the wider locksmithing industry as examples of best practice.
Workplace procedures refer to the procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 3 Assessment information
All activities must comply with applicable workplace procedures and must be consistent with accepted industry practice.

Outcomes and performance criteria

Outcome 1

Prepare to troubleshoot faults in automotive electronic locking systems.

Performance criteria

- 1.1 Authenticity of request is verified.
- 1.2 The make and model of vehicle and the type of locking system employed is ascertained.

1.3 Resources required for troubleshooting and fault diagnosis is selected.

Range examples – tools, equipment, keys, programming device, immobilizer, voltmeter, ammeter, ohmmeter.

Outcome 2

Troubleshoot, diagnose, and repair faults in automotive electronic locking systems.

Performance criteria

2.1 Logical fault finding method is applied to troubleshoot faults in accordance with the manufacturer's instructions.

2.2 Fault is diagnosed from troubleshooting results.

2.3 Fault is repaired.

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Status information and last date for assessment for superseded versions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	1 March 2018	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.