

Title	Produce vehicle keys		
Level	3	Credits	5

Purpose	<p>This unit standard is for people working as locksmiths and covers production of electronic keys to a range of factory Immobiliser systems.</p> <p>People credited with this unit standard are able to: prepare to produce a working key; produce a working key; and clone a transponder key.</p>
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Classification	Mechanical Engineering > Locksmithing
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Available grade	Achieved
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Guidance Information

- 1 References and legislation
 - Health and Safety at Work Act 2015.
 - Master Locksmiths Association (MLA) Code of Ethics.

- 2 Definitions
 - Accepted industry practice* refers to codes of practice and standardised procedures accepted by the wider locksmithing industry as examples of best practice.
 - Engine Control Unit (ECU)* – also known as powertrain control module (PCM), is an embedded system that uses microprocessors/computers to control a series of functions to ensure that cars perform at optimum levels. These computers are hardwired into various parts of a car monitoring and managing many aspects of the car.
 - Passive Keyless Entry (PKE)* system is a proximity system that provides the user with the convenience of unlocking a car door without pressing any buttons. Programmers also known as programing devices, software, transponders, and keyfobs may be proprietary items.
 - Remote Keyless Entry (RKE)* system enables the locking and unlocking of the car doors without having to insert a key into the door lock.
 - Transponder keys* – keys which contain a Radio Frequency device used for electronic authorisation to disarm the immobiliser.
 - 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 Range
Entry systems may include – passive keyless entry systems, remote keyless entry system, transponder keys.
 - 4 Assessment information
All activities must comply with applicable workplace procedures, and vehicle and equipment manufacturer's instructions, and must be consistent with accepted industry practice.
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Outcomes and performance criteria

Outcome 1

Prepare to produce a working key.

Performance criteria

- 1.1 Key type and application are identified and verified.
- 1.2 Relevant vehicle details are obtained.
- 1.3 Appropriate programming device is obtained.
- 1.4 Appropriate and compatible transponder keys are obtained.

Outcome 2

Produce a working key.

Performance criteria

- 2.1 Appropriate equipment is used to obtain key data from ECU or other devices in the car.
- 2.2 A working key is produced.
- 2.3 Programmed key is tested for correct operation.

Outcome 3

Clone a transponder key.

Performance criteria

- 3.1 Data is obtained from the original key
- 3.2 Data is written on the cloneable transponder.
- 3.3 Key is tested for correct operation.

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.