

<b>Title</b>	<b>Protect electronics when servicing or repairing a vehicle or machine in the automotive industry</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to protect electronics when servicing or repairing a vehicle or machine in the automotive industry.
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<b>Classification</b>	Motor Industry > Automotive Electrical and Electronics
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 It is recommended that people hold credit for Unit 3877, *Demonstrate knowledge of protecting vehicle electronics in the motor industry* before being assessed against this unit standard.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe work practices and be in accordance with applicable service information, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard may include:
  - Health and Safety at Work Act 2015;
 and any subsequent amendments and replacements.
- 4 Definitions
 

*Company requirements* refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.

*Service information* refers to information such as technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

*Suitable tools and equipment* refer to 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 work practices.
- 5 Machines may include – forklifts, earth moving equipment, grader equipment, loaders, dozers, tractors, agricultural equipment, dump trucks, prime movers; electric machines including – forklift, walk-behind pallet, ride-on pallet, reach truck, order picker, counterbalance truck, turret truck.

## Outcomes and performance criteria

### Outcome 1

Protect electronics when servicing or repairing a vehicle or machine in the automotive industry.

### Performance criteria

- 1.1 Battery is disconnected and reconnected.
- 1.2 A vehicle or machine with a flat battery is started.
- 1.3 Electronic control units are protected before and during servicing or repairs.

Range may include – removing and replacing battery, welding, removing and replacing wiring, starting vehicle or machine, cleaning, heating, preventing electrostatic discharge.

<b>Planned review date</b>	31 December 2026
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 January 1996	31 December 2018
Review	2	20 December 1998	31 December 2018
Revision	3	16 October 2003	31 December 2018
Review	4	25 January 2008	31 December 2018
Review	5	21 April 2016	31 December 2023
Review	6	24 March 2022	N/A

<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>.

### Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.