

Title	Depower and reinitialise electric vehicles		
Level	4	Credits	7

Purpose	People credited with this unit standard are able to depower and reinitialise electric vehicles.
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Classification	Motor Industry > Automotive Electrical and Electronics
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Available grade	Achieved
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Prerequisites	Unit 30879, <i>Demonstrate knowledge of hybrid electric and battery electric vehicle or machine systems and safety</i> , or demonstrate equivalent skills or knowledge.
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 3 Competency under this unit standard does not entitle the learner to legally perform prescribed electrical work. Any prescribed electrical work must be undertaken by a person who has been registered and licensed under the Electricity Act 1992. Prescribed electrical work is defined in [Schedule 1 of the Electricity \(Safety\) Regulations 2010](#).
- 4 Electric vehicles may be hybrid or battery electric.
Hybrid electric vehicles may include – plug in hybrid electric vehicles (PHEV), fuel cell electric vehicles (FCEV), additional new hybrid technology.
Battery electric vehicles may include – range extended electric vehicles (REEV), additional new electric vehicle technology.
- 5 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 may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

High Voltage (HV) refers to voltages above 60 V.

Low Voltage (LV) refers to voltages below 60 V.

Outcomes and performance criteria

Outcome 1

Depower electric vehicles.

Performance criteria

- 1.1 LV supply is disconnected and the proximity key is removed and secured.
- 1.2 HV service plug or manual service disconnect is removed to depower the HV system.
- 1.3 HV system is measured for zero residual AC and DC voltage.

Outcome 2

Reinitialise electric vehicles.

Performance criteria

- 2.1 HV service plug or manual service disconnect is reconnected.
- 2.2 LV supply is reconnected and the system is powered up.
- 2.3 Diagnostic test equipment is used to check and recalibrate sub-systems affected by the depower process.
- 2.4 Post-reactivation faults are recorded.

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	27 September 2018	N/A

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>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.