

Title	Service engine driven stationary and mobile generators and power units, and rectify control system faults		
Level	4	Credits	3

Purpose	<p>This unit standard is intended for people in the automotive repair industry.</p> <p>People credited with this unit standard are able to: prepare an engine driven stationary and mobile generator and power unit for operation; and test an engine driven stationary and mobile generator and power unit for correct operation and rectify any control system faults.</p>
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Classification	Motor Industry > Engines
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Available grade	Achieved
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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, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Electricity (Safety) Regulations 2010.
- 3 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 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 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 working practices.

Outcomes and performance criteria

Outcome 1

Prepare an engine driven stationary and mobile generator and power unit for operation.

Performance criteria

- 1.1 All engine pre-start checks are carried out.
Range fuel, lubrication, coolant, starter air or electrical supply.
- 1.2 All shutdown devices are reset as necessary to allow the engine to start.
Range coolant temperature, oil pressure, over-speed, air shutoff, automatic start-stop.
- 1.3 The generator is visually inspected, and the rotor bearings are lubricated.

Outcome 2

Test an engine driven stationary and mobile generator and power unit for correct operation and rectify any control system faults.

Performance criteria

- 2.1 Arrangements are made to load a generator and power unit.
- 2.2 The generator and power unit are started and run until the engine has reached its operating temperature before a performance test is carried out.
- 2.3 The rated load is applied, the system performance is checked, and results are noted.
Range voltage, current, frequency, speed.
- 2.4 The operation of all emergency overload shutdown systems is tested, and any system not operating to manufacturer specifications is reinstated to full serviceability.
Range adjustment, repair, replacement.
- 2.5 Any generator malfunction involving a high voltage fault found during the test run is reported to the maintenance supplier.
- 2.6 The load is removed, the engine is stopped, and any automatic start system is returned to the standby condition.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	9 November 1993	31 December 2022
Review	2	4 October 1996	31 December 2022
Review	3	26 February 1999	31 December 2022
Review	4	25 January 2008	31 December 2022
Review	5	29 April 2021	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.