

<b>Title</b>	<b>Carry out tests on battery banks and charge systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to carry out tests on battery banks and charge systems.
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<b>Classification</b>	Electricity Supply > Electricity Supply - Testing
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<b>Available grade</b>	Achieved
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### Guidance Information

- Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable legislative and industry requirements.
- Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; and any subsequent amendments and replacements; Electricity Act 1992; Electricity (Safety) Regulations 2010; Electricity supply industry codes of practice and documented enterprise procedures, including *Safety Manual – Electricity Industry* (SM-EI) (2015) Wellington: Electricity Engineers' Association, available at [www.eea.co.nz](http://www.eea.co.nz).
- Definitions  
*Asset owner* refers to a participant who owns or operates assets used for generating or conveying electricity.  
*Industry requirements* include all asset owner requirements; manufacturers' specifications; and enterprise requirements which may include the documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.
- Tests may include but are not limited to – charger and discharge characteristics, voltage regulation for multi-battery and dual bank systems, impedance test, float voltage and current measurements, charger ripple voltage tests, terminal torque tests, alarms, indication function, specific gravity.

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### Outcomes and performance criteria

#### Outcome 1

Carry out tests on battery banks and charge systems.

Range evidence is required for six tests.

**Performance criteria**

- 1.1 Equipment is prepared for testing in accordance with client requirements.
- Range procedures, technical specifications, test specifications, performance standards, equipment release authorisation.
- 1.2 An access permit, or its approved equivalent, is obtained and a safe work zone is prepared.
- 1.3 Selected tests are carried out in accordance with the standard procedures, or as specified by the client.
- 1.4 Test results are recorded, interpreted and analysed for compliance with the standard required.
- Range may include but is not limited to – reference to manufacturer’s requirements, client standards, records of previous test results.
- 1.5 Documentation is completed.
- 1.6 The equipment being tested is safely placed in, or returned to, service.

<b>Planned review date</b>	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	27 April 1998	31 December 2012
Revision	2	11 February 2004	31 December 2012
Review	3	19 May 2006	31 December 2012
Review	4	08 December 2011	31 December 2022
Review	5	23 April 2020	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0120
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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 Connexis – Infrastructure Industry Training Organisation [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.