

Title	Carry out safety and operational inspection checks on substation auxiliary plant and equipment		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to carry out safety and operational inspection checks on substation auxiliary plant and equipment.
----------------	---

Classification	Electricity Supply > Electricity Supply - Power System Maintenance
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 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.
- 2 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; Electricity Act 1992; Electricity (Safety) Regulations 2010; and any subsequent amendments and replacements; 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.
- 3 Definitions
Asset owner refers to a participant who owns or operates assets used for generating or conveying electricity.
Auxiliary plant and equipment refers to equipment that does not carry high voltage current but provides service for main high voltage bus equipment such as pumps, compressors, battery banks, safety features, earth sticks, ladders, safety gloves, and equipment.
Checklist refers to procedure sheets or manufacturer's manuals identified by equipment make, type, and system number.
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.
- 4 The range of this unit standard is limited to safety and operational service checks on substation's auxiliary plant and equipment normally applied at electricity supply substations.

Outcomes and performance criteria

Outcome 1

Carry out safety and operational inspection checks on substation auxiliary plant and equipment.

Range evidence of three checks is required.

Performance criteria

1.1 Preparation for inspection is completed.

Range abnormal incidents in operational reports, operational status of substation equipment, checklist, equipment releases.

1.2 Equipment being inspected is identified with the associated checklist.

1.3 Safety and operational inspection checks of auxiliary plant and equipment are completed to the client's requirements.

Range may include but is not limited to – test operations, operation cycle readings, insulation conditions, connections conditional, operational tests under load.

1.4 Inspection results are recorded and analysed to identify any items that require urgent attention.

1.5 Any requests for corrective action is documented and transmitted to the client within the scheduled time-frame.

Range equipment affected, the problem identified, recommendation for repairs or further investigation.

Planned review date	31 December 2025
----------------------------	------------------

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
Rollover and Revision	3	20 June 2008	31 December 2012
Review	4	21 July 2011	31 December 2022
Review	5	23 April 2020	N/A

Consent and Moderation Requirements (CMR) reference	0120
--	------

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 if you wish to suggest changes to the content of this unit standard.