

Field Engineering and Technology

Review of *Electricity Supply* unit standards

Subfield	Domain	ID
Electricity Supply	Electricity Supply - Core Skills	18273, 20421, 28112
	Electricity Supply - Distribution Networks	12295
	Electricity Supply - Metering	29740, 29741
	Electricity Supply - Power System Maintenance	29742 – 29748
	Electricity Supply - Power System Management	16279, 30109, 30512
	Electricity Supply - Transmission Networks	10528

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

February 2023

Planned review date

December 2027

Summary

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council reviewed the above unit standards that were due for review in 2022. Stakeholders were invited to provide feedback via email and the Waihanga Ara Rau website. Feedback was discussed by a working party and the recommendations were published on the website.

A group of unit standards with no usage were identified and recommended for expiry.

All providers with consent to assess and other key stakeholders were informed of the proposed review and expiry and were invited to comment. All responses were in favour of the proposal.

Main changes

- The Guidance Information in unit standards was updated to align with other unit standards in Electricity Supply domains.
- Three outcomes were removed from Unit 18273 because they do not align with the role of a Line Mechanic, and the title was amended to align with the remaining outcomes.
- Ten unit standards were designated as expiring because of low or no usage.

Category D unit standards will expire on 31 December 2024

The last date for assessment of superseded versions of Category B unit standards is 31 December 2024.

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Engineering and Technology > Electricity Supply > Electricity Supply - Core Skills

ID	Title	Level	Credit	Review Category
18273	Demonstrate knowledge of conductors, insulators and semiconductors used in the electricity supply industry Demonstrate knowledge of conductors, insulators and resistance in the electricity supply industry	3	5	B
20421	Demonstrate knowledge of earthing in the electricity supply industry	3	5	B
28112	Operate and store machinery, plant, and equipment in an electricity network environment	4	6	B

Engineering and Technology > Electricity Supply > Electricity Supply – Distribution Networks

ID	Title	Level	Credit	Review Category
12295	Apply and remove earths from conductors on electricity supply networks	4	4	B

Engineering and Technology > Electricity Supply > Electricity Supply – Metering

ID	Title	Level	Credit	Review Category
29740	Demonstrate knowledge of the electricity metering Codes of Practice and metering installation design	5	15	D
29741	Calibrate electricity revenue metering systems in the electricity supply industry	5	10	D

Engineering and Technology > Electricity Supply > Electricity Supply – Power System Maintenance

ID	Title	Level	Credit	Review Category
29742	Demonstrate knowledge of electrical machines in power engineering	5	15	D
29743	Demonstrate knowledge of electronics in power engineering	5	15	D
29744	Demonstrate knowledge of data communications in power engineering	5	15	D
29745	Demonstrate knowledge of routing and switching essentials in power engineering	5	15	D
29746	Demonstrate and apply knowledge of excitation systems on electrical machines	5	6	D
29747	Demonstrate knowledge of transmission and distribution network engineering	5	15	D
29748	Demonstrate and apply knowledge of complex power protection engineering	6	12	D

Engineering and Technology > Electricity Supply > Electricity Supply – Power System Management

ID	Title	Level	Credit	Review Category
16279	Monitor electricity supply power network system	4	10	B
30109	Demonstrate knowledge of turbine governors used in electricity power plant	4	10	B
30512	Implement electricity network load management Explain and implement load management on an electricity network	4	6	B

Engineering and Technology > Electricity Supply > Electricity Supply – Transmission Networks

ID	Title	Level	Credit	Review Category
10528	Prepare steel and apply protective coatings to electricity network steel structures	3	6	D