

Field Engineering and Technology

Rollover and Revision of *Electricity Supply* unit standards

Subfield	Domain	ID
Electricity Supply	Electricity Supply – Live Work	10531, 10535 – 10538, 10540 – 10542, 20071, 20072
	Electricity Supply - Power System Maintenance	14328, 14331, 27655, 28895, 29731 – 29739, 32057, 32058, 32060
	Electricity Supply - Power System Management	16277, 16282, 19477, 19479, 27654, 28195, 32171
	Electricity Supply - Testing	14269, 14273, 14287, 14288, 14290, 14291, 14294, 14297, 24152
	Electricity Supply – Transmission Networks	18025, 20416, 20419, 28943, 29083 – 29086, 30449, 30450

Energy and Infrastructure Industry Skills Board has completed the rollover and revision of the unit standards listed above.

Date new versions published

February 2026

Planned review date

December 2028

Summary

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council identified a group of unit standards that was due or overdue for review. In order to allow time for the standard setting body to develop replacement skill standards, rollover and revision of the standards was proposed. Any standards which required review because of stakeholder feedback were removed from the process.

The proposal was communicated by email to stakeholders, and no feedback was received. The standards are fit for purpose. The above standards have been transferred from Waihanga Ara Rau Construction and Infrastructure WDC to Energy and Infrastructure Industry Skills Board to reflect the intent of VET reforms.

Main changes

- Guidance information was updated so that it is consistent across the suite.
- The next review date was set at 31 December 2028.
- Performance criteria for unit standards 19477 and 32171 were updated.
- Title of Unit 10538 was updated to align with the singular Outcome.

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

All changes are in **bold**.

Engineering and Technology > Electricity Supply > Electricity Supply – Live Work

ID	Title	Level	Credit
10531	Remove and install line hardware and equipment on structures using live line hot stick up to 66kV	4	20
10535	Remove and install electricity network pole structures using live line hot stick up to 66kV	4	20

ID	Title	Level	Credit
10536	Make and break high voltage connections up to 33kV using live line hot stick procedures	4	10
10537	Make and break high voltage connections up to 33kV using live line glove and barrier procedures	4	10
10538	Inspect, test, and clean live line tools and equipment Inspect, clean and test live line tools and equipment	4	6
10540	Replace and install hardware on structures using live line glove and barrier procedures up to 33kV	5	30
10541	Remove and install pole structures using live line glove and barrier procedures up to 33kV	5	20
10542	Demonstrate knowledge of live line theory and procedures	4	10
20071	Joint live low voltage polymeric insulated power cables in the electricity supply industry	4	10
20072	Terminate live low voltage polymeric insulated power cables in the electricity supply industry	4	10

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

ID	Title	Level	Credit
14328	Carry out an inspection of substation equipment	3	4
14331	Carry out safety and operational inspection checks on substation auxiliary plant and equipment	3	4
27655	Demonstrate knowledge of faults, relay systems, and components of diagrams in power system protection systems	4	4
28895	Maintain substation earthing and bonding	3	3
29731	Demonstrate knowledge of power protection and control networks	5	15
29732	Demonstrate knowledge of electrical principles in power engineering	5	15
29733	Demonstrate knowledge of power engineering	5	15
29734	Demonstrate knowledge of power engineering mathematics	5	15
29735	Demonstrate knowledge of electrical power system engineering	6	15
29736	Demonstrate and apply knowledge of power system protection in the electricity supply industry	6	15
29737	Carry out acceptance, commissioning and maintenance tests on electricity supply plant and equipment	5	20
29738	Plan, install, and test electrical installation wiring and equipment	5	15
29739	Demonstrate knowledge of the Electricity Act, circuit protection and compliance testing of works or installations	5	10
32057	Carry out routine inspection and service of a power transformer	4	6
32058	Carry out routine inspection and service on a high voltage circuit breaker	4	6
32060	Install and inspect an earthing and bonding system for equipment used in the electricity supply industry	4	3

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

ID	Title	Level	Credit
16277	Diagnose faults on electricity supply network equipment (System Operation)	5	11
16282	Respond to power system events and emergencies on the electricity supply power system	5	15
19477	Demonstrate knowledge of the national electricity grid	4	5
19479	Use SCADA to manage the power system	4	5
27654	Demonstrate knowledge of SCADA systems in the Electricity Supply power system	3	2

ID	Title	Level	Credit
28195	Demonstrate knowledge of fault diagnosis and power restoration on electricity supply network plant and equipment	4	4
32171	Describe switching instructions and how to compile them, and action a switching instruction in electricity supply	4	10

Engineering and Technology > Electricity Supply > Electricity Supply - Testing

ID	Title	Level	Credit
14269	Locate faults in power cables	4	5
14273	Carry out maintenance and commissioning tests on instrument transformers	4	5
14287	Use and maintain test instruments used in the high voltage electricity supply industry	3	4
14288	Carry out tests on battery banks and charge systems	3	4
14290	Joint, test and commission specialist communication cable systems	4	5
14291	Test and repair a SCADA system	5	6
14294	Carry out insulating oil sampling and voltage breakdown tests	3	3
14297	Carry out commissioning and maintenance tests on single and multiple input protection systems	5	6
24152	Operate a cable spiking and cutting tool	3	2

Engineering and Technology > Electricity Supply > Electricity Supply – Transmission

ID	Title	Level	Credit
18025	Demonstrate knowledge of stringing, tensioning, and terminating transmission network conductors	4	10
20416	Carry out condition assessments of electricity supply line hardware and conductors	4	5
20419	Use a conductor trolley on de-energised transmission line conductors	4	6
28943	Plan and carry out maintenance on transmission grid assets	4	10
29083	Demonstrate knowledge of abrasive blasting in the electricity transmission industry	4	10
29084	Describe and apply protective coatings to electricity structures	4	20
29085	Apply quality control concepts to abrasive blasting and protective coatings on electricity structures	4	10
29086	Describe and operate primary and secondary preparation equipment on electricity structures	4	12
30449	Apply condition coding systems to electricity supply tower structures	4	4
30450	Apply condition coding systems to electricity supply wooden and concrete poles	4	4