

Field Engineering and Technology**Review of *Electricity Supply* unit standards**

Subfield	Domain	ID
Electricity Supply	Electricity Supply - Metering	19309-19322, 19655, 23784
	Electricity Supply - Power System Maintenance	26019-26021

Infrastructure ITO (Connexis) has reviewed the unit standards listed above.

Date new versions published

July 2017

Planned review date

December 2022

Summary

The review of these unit standards was initiated as part of their planned review cycle and the Targeted Review of Qualifications (TRoQ) for Engineering and Technology triggered in 2011. New standards were developed to meet the needs for the electricity supply sector's new qualification.

A sector working group with industry and relevant stakeholders was formed for collaboration about the unit standards outcomes to ensure that the new standards met current and future needs for power technicians. Meetings were held to review the existing unit standards. It was decided to expire these standards as they have been difficult to achieve, and develop new replacement standards. Industry feedback was sought on the draft standards and amendments made to the final versions.

Main changes

- 19 unit standards were designated expiring without replacement.
- 18 new unit standards were developed.

Category D unit standards will expire at the end of December 2019**Detailed list of unit standards – classification, title, level, and credits**

All changes are in **bold**.

Engineering and Technology > Electricity Supply > Electricity Supply - Metering

ID	Title	Level	Credit	Review Category
19309	Install electricity metering control relays	3	2	D
19310	Install electricity metering single-phase whole current meters	4	3	D
19311	Install electricity metering poly-phase whole current meters	4	3	D
19312	Transport and package electricity metering revenue meters and test equipment	2	2	D

ID	Title	Level	Credit	Review Category
19313	Demonstrate knowledge of electricity metering systems and installations	4	10	D
19314	Programme electricity meter data loggers in the electricity supply industry	4	3	D
19315	Bench test and adjust electricity meters	4	5	D
19316	Design a current transformer (CT) electricity meter installation	5	12	D
19317	Design a high voltage (HV) electricity meter installation	5	5	D
19318	Install and commission electricity current transformer metering	5	10	D
19319	Install and commission voltage transformer metering in the electricity supply industry	4	12	D
19320	Calibrate revenue metering current transformers in the electricity supply industry	5	12	D
19321	Calibrate revenue metering voltage transformers in the electricity supply industry	5	12	D
19322	Calibrate high accuracy electricity meters in the electricity supply industry	5	12	D
19655	Demonstrate knowledge of electricity protection systems affecting metering installations	5	4	D
23784	Describe the electricity metering Codes of Practice	4	10	D
29740	Demonstrate knowledge of the electricity metering Codes of Practice and metering installation design	5	15	New
29741	Calibrate electricity revenue metering systems in the electricity supply industry	5	10	New

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

ID	Title	Level	Credit	Review Category
26019	Demonstrate knowledge of introductory concepts in power system protection	4	10	D
26020	Demonstrate knowledge of intermediate concepts in power system protection	5	10	D
26021	Demonstrate knowledge of advanced concepts in power system protection	6	15	D
29731	Demonstrate knowledge of power protection and control networks	5	15	New
29732	Demonstrate knowledge of electrical principles in power engineering	5	15	New
29733	Demonstrate knowledge of power engineering	5	15	New
29734	Demonstrate knowledge of power engineering mathematics	5	15	New
29735	Demonstrate knowledge of electrical power system engineering	6	15	New

ID	Title	Level	Credit	Review Category
29736	Demonstrate and apply knowledge of power system protection in the electricity supply industry	6	15	New
29737	Carry out acceptance, commissioning and maintenance tests on electricity supply plant and equipment	5	20	New
29738	Plan, install and test installation wiring and equipment	5	15	New
29739	Demonstrate knowledge of the Electricity Act, circuit protection and compliance testing of works or installations	5	10	New
29742	Demonstrate knowledge of electrical machines in power engineering	5	15	New
29743	Demonstrate knowledge of electronics in power engineering	5	15	New
29744	Demonstrate knowledge of data communications in power engineering	5	15	New
29745	Demonstrate knowledge of routing and switching essentials in power engineering	5	15	New
29746	Demonstrate and apply knowledge of excitation systems on electrical machines	5	6	New
29747	Demonstrate knowledge of transmission and distribution network engineering	5	15	New
29748	Demonstrate and apply knowledge of complex power protection engineering	6	12	New