Field Engineering and Technology

Review of *Electricity Supply - Distribution Networks* unit standards

Subfield	Domain	ID
Electricity Supply	Electricity Supply - Distribution Networks	10543, 10546-10548, 10550, 10551, 18026, 18033, 20059, 20061-20068, 20071-20074, 28276-28281

Connexis has completed the review of the unit standards listed above.

Date new versions published **February 2020**

Planned review date **December 2025**

Summary

Connexis identified a group of unit standards due or overdue for review. Some of these had very low usage in the last five years and are not in current Connexis programmes. After consultation with stakeholders with consent to assess for these unit standards, a group of unit standards were set to expire. The remaining unit standards were reviewed by a group of subject matter experts in April – November 2019.

Main changes

- Guidance information was updated in all standards to ensure currency with industry knowledge and practice.
- Some standards were condensed to one outcome to more accurately reflect the task being assessed.
- Titles of some unit standards were updated to more fully represent the outcomes.
- Standards 20074, 28277, and 28280 were consolidated into a new replacement standard to address duplication of outcomes.
- Standards 20071 and 20072 were reclassified into the *Electricity Supply - Live Work* domain.
- Category D standards were designated expiring without replacement, as identified in the table below, principally because of low usage.

Category C and D unit standards will expire at the end of December 2022

The last date for assessment of superseded versions of Category B unit standards is December 2022

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	**Classification or ID**	**Level**	**Nature of consent**	**Classification or ID**	**Level**
Domain	Electricity Supply - Distribution Networks	4-7	Standards	20071, 20072	4
Standard	28277	3	Standard	32088	3

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

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ID	Title	Level	Credit	Review Category
10543	Plan, identify and protect underground services during excavation and reinstatement	3	10	B
10546	Joint LV AC paper insulated power cables in the electricity supply industry	3	5	D
10547	Joint HV polymeric insulated power cables up to and including 11kV in the electricity supply industry **Joint high voltage polymeric insulated power cables up to and including 11kV in the electricity supply industry**	4	10	B
10548	Joint HV paper insulated power cables up to and including 11kV in the electricity supply industry **Joint high voltage paper insulated power cables up to and including 11kV in the electricity supply industry**	4	6	B
10550	Joint HV polymeric insulated power cables from 22kV to 33kV in the electricity supply industry **Joint high voltage polymeric insulated power cables from 22kV to 33kV in the electricity supply industry**	5	10	B
10551	Joint HV solid paper insulated multicore power cables from 22kV to 33kV in the electricity supply industry	5	8	D
18026	Carry out a rescue from an electricity supply services pit	3	2	B
18033	Carry out winch assisted tree felling in the electricity supply industry	4	10	D
20059	Terminate low voltage (LV) polymeric insulated power cables in the electricity supply industry **Terminate low voltage polymeric insulated power cables in the electricity supply industry**	3	4	B
20061	Terminate HV polymeric insulated power cables up to and including 11kV in the electricity supply industry **Terminate high voltage polymeric insulated power cables up to and including 11kV in the electricity supply industry**	4	10	B
20062	Terminate HV paper insulated power cables up to and including 11kV in the electricity supply industry **Terminate high voltage paper insulated power cables up to and including 11kV in the electricity supply industry**	4	6	B
20063	Terminate HV polymeric insulated power cables from 22kV to 33kV in the electricity supply industry **Terminate high voltage polymeric insulated power cables from 22kV to 33kV in the electricity supply industry**	5	10	B

ID	Title	Level	Credit	Review Category
20064	Terminate HV solid paper insulated multicore power cables from 22kV to 33kV in the electricity supply industry	5	8	D
20065	Terminate paper insulated oil pressure multicore power cables from 22kV to 110kV in the electricity supply industry	5	10	D
20066	Terminate paper insulated gas pressure multicore power cables from 22kV to 110kV in the electricity supply industry	5	10	D
20067	Joint HV polymeric insulated multicore power cables from 22kV to 110kV in the electricity supply industry	5	10	D
20068	Terminate HV polymeric insulated multicore power cables from 22kV to 110kV in the electricity supply industry	5	10	D
20073	Demonstrate knowledge of the installation of power cables	2	2	D
20074	Demonstrate knowledge of the construction of LV and HV power cables and cable preparation	2	4	C
28277	Demonstrate knowledge of power cable construction	3	2	C
28280	Demonstrate knowledge of underground power cable installation requirements	4	4	C
32088	**Demonstrate knowledge of power cable construction and preparation**	**3**	**4**	
28276	Demonstrate knowledge of electrical circuit protection devices for power cables	3	2	B
28278	Plan, joint, and test underground cables, and carry out a rescue from an electricity confined space **Plan, joint, and test underground cables, and carry out a rescue from a distribution pit**	4	10	B
28279	Demonstrate knowledge of electrical protection principles and the effects of faults on distribution networks **Demonstrate knowledge of electrical protection principles and the causes and effects of faults on distribution networks**	4	4	B
28281	Joint electricity supply power cable from 22 kV to 33 kV using transition jointing methods **Joint high voltage paper and polymeric insulated cables using a transition jointing method.**	5	15	B

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ID	Title	Level	Credit	Review Category
20071	Joint live LV polymeric insulated power cables in the electricity supply industry **Joint live low voltage polymeric insulated power cables in the electricity supply industry**	4	10	B
20072	Terminate live LV polymeric insulated power cables in the electricity supply industry **Terminate live low voltage polymeric insulated power cables in the electricity supply industry**	4	10	B