FIELD ENGINEERING AND TECHNOLOGY

Review of *Electricity Supply* unit standards

Subfield	Domain	Id
Electricity Supply	Electricity Supply – Distribution Networks	10523-10525, 10546, 10552-10556, 17568, 20060, 20065-20072
	Electricity Supply – Live Work	10532-10534, 17571, 17572, 18034-18036
	Electricity Supply – Power System Management	12385, 12386, 12388, 15578, 16275-16277, 16279, 16280, 16282, 16284-16286, 18279, 19478-19480

The Electricity Supply Industry Training Organisation has completed the review of the unit standards listed above.

Date new versions published **April 2010**

Planned review date **December 2014**

Summary of review and consultation process

These unit standards have been reviewed to ensure they remain relevant to industry. Industry was invited to participate in the review and assessors were asked to comment on those standards they had assessed against. A notification of the standards being reviewed was also posted on the ESITO website. As a result of industry and assessor feedback legislation and terminology have been updated. In addition some standards have been designated expiring due to very low usage.

Main changes resulting from the review

- Special notes updated.
- Range statements updated.
- Standards 10525, 10552-10556, 17571, 17572, 18034-18036, 20065, and 20066 were designated expiring and will not be replaced.

Category D unit standards will expire at the end of December 2012

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on registered qualifications

Key to type of impact	
Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Electricity Supply Industry Training Organisation qualifications are impacted by the outcome of this review. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

Qualification Title and Reference	ID
National Certificate in Electricity Supply (Cable Jointer – Specialist) (Level 5) [Ref: 1108]	**10552**, **10553**, **10555**, **10556**, **20065**, **20066**
National Certificate in Electricity Supply (Hydro Operator) (Level 4) [Ref: 1405]	18279
National Certificate in Electricity Supply (Network Operator) (Level 4) [Ref: 0892]	16275, 16277, 16280
National Certificate in Electricity Supply (Field Switcher) (Level 4) with optional strands in Distribution Networks, Transmission Networks, and Operational and Co-ordination Planning [Ref: 1117]	16280

Review Categories and changes to 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

Subfield Electricity Supply
Domain Electricity Supply – Distribution Networks

Id	Title	Level	Credit	Review Category
10523	Install and replace optical fibre ground wire conductors and associated hardware **Install optical fibre ground wire conductors and associated hardware**	4	8	B
10524	Install and replace aerial bundled conductors and associated line hardware **Install aerial bundled conductors and associated line hardware**	4	6	B
10525	Install and replace catenary conductors and associated line hardware	3	6	D
10546	Joint LV AC paper insulated power cables in the electricity supply industry	3	5	B

Id	Title	Level	Credit	Review Category
10552	Joint paper insulated oil pressure power cables in the electricity supply industry	5	10	D
10553	Joint paper insulated gas pressure power cables in the electricity supply industry	5	10	D
10554	Joint and terminate flexible power cables up to 11kV	3	8	D
10555	Process and control gas in gas filled power cables from 33kV to 110kV	5	10	D
10556	Process and control oil in oil filled cables from 33kV to 110kV	5	10	D
17568	Restore supply of electricity in a distribution environment	4	6	B
20060	Terminate LV paper insulated power cables in the electricity supply industry	3	5	B
20065	Terminate paper insulated oil pressure power cables in the electricity supply industry	5	10	D
20066	Terminate paper insulated gas pressure power cables in the electricity supply industry	5	10	D
20067	Joint HV polymeric insulated power cables at 66kV and above in the electricity supply industry	5	10	B
20068	Terminate HV polymeric insulated power cables at 66kV and above in the electricity supply industry	5	10	B
20069	Joint live LV paper insulated power cables in the electricity supply industry	4	6	B
20070	Terminate live LV paper insulated power cables in the electricity supply industry	4	6	B
20071	Joint live LV polymeric insulated power cables in the electricity supply industry	4	5	B
20072	Terminate live LV polymeric insulated power cables in the electricity supply industry	4	5	B

Domain Electricity Supply – Live Work

Id	Title	Level	Credit	Review Category
10532	Remove and install hardware on termination towers using hot sticks above 110kV **Remove and install hardware on termination towers using hot sticks greater than 110kV**	4	6	B
10533	Remove and install line hardware on angle towers using live line hot sticks greater than 110kV	4	6	B
10534	Remove and install line hardware on suspension towers using live line hot sticks greater than 110kV	4	6	B
17571	Repair and replace mid-span joints on live electricity network transmission lines	4	12	D
17572	Prepare working zone for applying protective coatings to tower steel within MAD	3	4	D
18034	Remove and install electricity network hardware on termination towers using bare hand above 50kV	4	6	D

Id	Title	Level	Credit	Review Category
18035	Remove and install electricity network hardware on angle towers using bare hand greater than 50kV	4	6	D
18036	Remove and install electricity network hardware on suspension towers using bare hand above 50kV	4	6	D

Domain Electricity Supply – Power System Management

Id	Title	Level	Credit	Review Category
12385	Operate hydro-electric generating plant on site	4	8	B
12386	Operate electricity generating electrical control systems on site	4	6	B
12388	Operate hydro-electric station auxiliary plant	4	8	B
15578	Maintain electricity system frequency and voltage within agreed tolerances	5	6	B
16275	Implement electricity supply network asset owner's load management policy **Implement electricity supply power network asset owner's load management policy**	4	10	B
16276	Respond to electricity supply external system operations communications	4	5	B
16277	Evaluate faults on electricity supply network equipment (System Operation) **Evaluate faults on electricity supply power network equipment (System Operation)**	5	11	B
16279	Monitor electricity supply power network system	4	10	B
16280	Compile and action switching plans to maintain electricity supply network security **Compile and action switching plans to maintain electricity supply power network security**	4	9	B
16282	Respond to routine events and minor emergencies on the electricity supply power system	5	15	B
16284	Remove electricity supply network equipment from service for access for work (System Operation)	4	10	B
16285	Plan for scheduled work on electricity supply power system equipment	4	10	B
16286	Respond to major emergencies that threaten the electricity supply power network	5	15	B
18279	Manage water resources for on site electricity generation **Manage water resources for on site hydro-electricity generation**	4	8	B
19478	Demonstrate knowledge of HVDC in the role of a power system controller	5	10	B
19479	Use SCADA to manage the power system	3	5	B
19480	Use advanced SCADA functions to manage the power system	5	3	B