

**FIELD                    ENGINEERING AND TECHNOLOGY****Revision and rollover of *Electricity Supply* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>Id</b>
Electricity Supply	Electricity Supply - Core Skills	10509, 12387, 17025, 18028, 18273, 18276, 18277, 20090, 20092, 20094, 20095, 20421
	Electricity Supply - Distribution Networks	10512, 10521, 12295, 19951, 19952
	Electricity Supply - Design and Commissioning	14279
	Electricity Supply - Testing	14294, 20191
	Electricity Supply - Power System Maintenance	14328, 14330, 14331, 14333-14335, 14338, 14339, 14341, 14342, 14344, 14345
	Electricity Supply - Power System Management	16096

The Electricity Supply Industry Training Organisation has revised and rolled over the unit standards listed above.

**Date new versions published**

**June 2008**

**Planned review date**

**December 2009**

**Reason for the revision**

These unit standards were rolled over to maintain their currency. They were also revised to reflect current guidelines and regulations.

**Main changes resulting from the revision**

- The special notes and performance criteria were updated to reflect current guidelines and legislation.
- The planned review date was rolled over until December 2009.

**Impact on existing provider accreditations**

None.

**Impact on Accreditation and Moderation Action Plan (AMAP)**

None.

## Impact on existing qualifications

Qualifications that contain the revised standards or classifications are tabled below.

<b>Affected</b>	The qualification lists a revised classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits
<b>Not materially affected</b>	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 not materially affected by the changes. They will be updated when they are next reviewed.

Qualification title	Classification or standard in the qualification
National certificate in Electricity Supply (Mechanical Fitter) (Level 4) with strands in Hydro, Networks, and Thermal; and an optional strand in Electrical Services	14328
National Certificate in Electricity Supply (Field Switcher) (Level 4)	14328
National Certificate in Electricity Supply (Sub Station Maintainer) (Level 4)	14328

## Summary of main changes

Subfield Electricity Supply  
Domain Electricity Supply - Core Skills

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>
10509	Climb and work on electricity network structures	3	6
12387	Operate electrical switchgear	3	3
17025	Carry out a rescue from an electrical structure	3	2
18028	Demonstrate knowledge of earthing in high voltage (HV) electricity network installations and works	3	2
18273	Demonstrate knowledge of the sources, origin, basic composition, and properties of electricity <b>Demonstrate knowledge of the basic composition and properties of electricity</b>	2	5
18276	Operate light lifting and rigging equipment in the electricity supply environment	2	2
18277	Demonstrate knowledge of the requirements for holding permits in the electricity supply industry	3	2
20090	Carry out switching operations on metal clad switchgear	4	3
20092	Demonstrate knowledge of electricity transmission and distribution plant and equipment	2	4
20094	Receive and return transfer of operational control in the electricity supply industry <b>Receive and return transfer of control in the electricity supply industry</b>	4	4
20095	Respond to substation secondary systems alarms and indications in the electricity supply industry	4	4
20421	Demonstrate knowledge of earthing in the electricity supply industry	3	5

## Domain Electricity Supply - Design and Commissioning

Id	Title	Level	Credit
14279	Commission power system equipment from 'end to end'	5	7

## Domain Electricity Supply - Distribution Networks

Id	Title	Level	Credit
10512	Joint electricity network overhead conductors	3	4
10521	Install and replace electricity network pole structures	4	10
12295	Apply earths to and remove earths from overhead electric line conductors	3	4
19951	Demonstrate knowledge of the construction of LV and HV power cables and preparation techniques	2	4
19952	Demonstrate knowledge of the requirements for working on electricity supply networks	2	4

## Domain Electricity Supply - Power System Maintenance

Id	Title	Level	Credit
14328	Carry out in service visual inspections on Substation equipment for safe operation <b>Carry out in-service visual inspections on substation equipment for safe operation</b>	3	4
14330	Install substation earthing and bonding system	3	3
14331	Carry out in-service visual inspection checks on substation auxiliary plant and equipment	3	4
14333	Carry out routine inspection and servicing on transmission power transformers above 33kV	4	8
14334	Carry out routine service on transmission instrument transformers 33kV and above	4	7
14335	Service and repair high voltage disconnectors, earth switches and other bus structure equipment	3	6
14338	Carry out routine inspection and servicing on high voltage bulk oil circuit breakers	4	6
14339	Carry out routine inspection and servicing on 11kV and 33kV pole mounted re-closer circuit breakers	3	3
14341	Carry out routine inspection and service on high voltage indoor metal clad circuit breakers and bus	4	4
14342	Carry out routine inspection and minor servicing on high voltage SF6 outdoor circuit breakers	4	5
14344	Carry out routine inspection and servicing on substation emergency services	3	4
14345	Carry out routine inspection and servicing on substation air compressor systems	3	4

## Domain Electricity Supply - Power System Management

Id	Title	Level	Credit
16096	Demonstrate knowledge of the control and protection systems of the New Zealand HVDC transmission	5	10

## Domain Electricity Supply - Testing

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>
14294	Carry out insulating oil sampling and voltage breakdown tests	3	3
20191	Conduct advanced insulation resistance testing in the electricity supply industry	4	5