

FIELD ENGINEERING AND TECHNOLOGY**Review of *Electrical Engineering* unit standards**

Subfield	Domain	Id
Electrical Engineering	Electric Switchboards	14970-14982

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

Date new versions published

March 2008

Planned review date

December 2013

Summary of review and consultation process

The ElectroTechnology Industry Training Organisation in conjunction with the Switchgear Fitter industry reviewed the unit standards listed above to ensure that they are fit for purpose.

The consultation groups were asked to consider the following:

- the currency of the unit standards and their suitability for existing and future qualifications
- the appropriateness of unit standards to their domain
- the accuracy and appropriateness of their content
- whether levels and credits were commensurate with performance outcomes and training needs
- any gaps in skills and/or knowledge that could be captured by the development of new unit standards
- the assessability of the unit standards.

Main changes resulting from the review

Changes to structure and content

- standard 14971 credit reduced from 25 to 20
- title of standard 14977 changed and level reduced from 4 to 3
- standard 14982 designated expiring (review category D); learning outcomes now covered by new standard 24610
- standard 24608 and 24609 replaced standard 14980
- standard 24611 replaced standard 14976.

Unit standards categorised as category C and D expire at the end of December 2010.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

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

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 ElectroTechnology qualification is affected by the outcome of this review and will be reviewed in 2008.

Qualification title	Standard in the qualification
National Certificate in Electrical Engineering (Switchgear Fitter) (Level 3) [Ref: 0933]	14976

Summary of main changes

All changes are in **bold**. For the D category unit standard, the suggested alternative is in *Italics*.

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

Engineering and Technology > Electrical Engineering > Electric Switchboards

Id	Title	Level	Credit	Review Category
14970	Demonstrate knowledge of electric switchboard components and their representation on drawings	3	30	B
14971	Use and maintain specialised tools and fixings for electric switchboard manufacture	3	25 20	B
14972	Assemble electric switchboards	3	30	B
14973	Wire electric switchboards	3	30	B
14974	Fabricate and install busbars in electric switchboards	3	20	B
14975	Install earthing systems and shrouding on electric switchboards	3	15	B
14976	Handle switchgear equipment and switchboards safely	3	10	C
24611	Handle switchgear equipment and switchboards in a safe manner	3	5	
14977	Demonstrate knowledge of legislation and standards relevant to the switchboard industry Demonstrate knowledge of regulations relevant to the switchboard industry	4 3	3	B
14978	Demonstrate knowledge of electric switchboard testing	4	3	B

Id	Title	Level	Credit	Review Category
14979	Demonstrate knowledge of electric switchboard circuits	4	5	B
14980	Perform production testing of electric switchboards	4	40	C
24608	Test electric switchboards	3	5	
24609	Perform compliance testing of electric switchboards	4	20	
14981	Modify installed electric switchboards	4	15	B
14982	Demonstrate knowledge of busbar design	4	2	D
24610	<i>Demonstrate knowledge of busbar systems design</i>	4	10	
24610	Demonstrate knowledge of busbar systems design	4	10	New