



- New unit standards 22763 and 22764 replaced unit standard 18083
- New unit standards 22765-22767 were developed to cover gaps in skill and knowledge requirements identified by the review.

### Unit standard categorised as category C expires at the end of December 2008.

#### 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.

<b>Affected</b>	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
<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

In the following tables qualifications that contain unit standards and classifications in both categories are identified in the *Affected* table, with the items that generated the *Affected* status in **bold**.

The following ETITO qualifications are affected by the outcome of this review.

Qualification Title	Standards in the qualification
National Certificate in Electrical Appliance Servicing [Ref: 0827]	17799, 17805, 18082, <b>18083</b> , 18084, 18085, 18089, 18091
National Certificate in Electrical Engineering (Electrician for Registration) (Level 4) [Ref: 1195]	<b>1192</b>
National Certificate in Electrical Engineering (Level 3) [Ref: 0228]	<b>1192</b>
National Certificate in Electronic Security (Installer) (Level 3) [Ref: 1102]	17805

The following qualifications are not materially affected by the changes. The standard setting body (SSB) has been advised that they require revision.

Qualification Title	Standards in the qualification	SSB Name
National Certificate in Electricity Supply (Electrical) (Level 3) [Ref: 0888]	<b>1192</b>	Electricity Supply Industry Training Organisation
National Certificate in Electricity Supply (Electrical Services Technician) (Level 3) [Ref: 1098]	18082, 18091	
National Certificate in Electricity Supply (Technician) (Level 3) (Technician) (Level 3) with strands in Control and Instrumentation, Power Technician, and HVDC Technician [Ref: 0922]	<b>1192</b>	

Qualification Title	Standards in the qualification	SSB Name
National Certificate in Electricity Supply (Technician) (Level 4) with strands in Control and Instrumentation, Power Technician, and HVDC Technician; and an optional strand in Electrical Services [Ref: 0917]	17799, 17805, 18091	
National Certificate in Electricity Supply (Mechanical Fitter) (Level 4) with strands in Hydro, Networks, and Thermal; and an optional strand in Electrical Services [Ref: 0918]	17799, 17805, 18091	

## Transition

Transition for ETITO qualifications is:

Candidates with unit standard 18083 will be exempt from the requirements for unit standards 22763 and 22764.

## Summary of main changes to standards' Ids, classification, titles, levels, and credits

The following summary shows the changes made to the standards because of the review. All changes are in **bold**.

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the replacement standard carries the same Id and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the replacement standard carries the same Id and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new Id
<b>D</b>	Standard will expire and not be replaced

Subfield      Electrical Engineering  
Domain        Electrical Appliance Servicing

Id	Title	Level	Credit	Review Category
1173	Install and commission electrical appliances	4	5	B
1189	Service microwave ovens	4	3	B
1192	Fault-find, repair, and test portable electrical tools and appliances	3	4 <b>2</b>	B
16411	Fault-find, repair, and re-commission fixed-wired electrical appliances	3	4	B
18082	Replace and test motors in electrical appliances <b>Replace faulty motors in electrical appliances</b>	4	4	B
18083	Service electrical appliances	4	30	C
<b>22763</b>	<b>Service electrical or electronic goods to gain electrical service technician's registration</b>	<b>4</b>	<b>10</b>	
<b>22764</b>	<b>Service electrical appliances</b>	<b>4</b>	<b>25</b>	
18084	Demonstrate knowledge of refrigeration principles and application to domestic electrical appliances <b>Demonstrate knowledge of refrigeration principles applicable to domestic appliances</b>	4	6	B

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
18085	Demonstrate knowledge of the principles of domestic electrical appliances <b>Demonstrate knowledge of the operating principles and installation requirements of domestic electrical appliances</b>	4	7	B
18086	Draw and interpret diagrams of electrical appliances	3	4	B
18087	Exhibit customer service skills in electrical appliance servicing	3	3	B
18088	Demonstrate systematic fault finding techniques in electrical appliance servicing	3	3	B
18089	Demonstrate knowledge of domestic gas appliances, for electrical appliance servicing technicians <b>Demonstrate knowledge of domestic gas appliances for electrical appliance service technicians</b>	4	4	B
20591	Braze refrigerator pipe work in electrical appliance servicing	3	2 3	B
<b>22765</b>	<b>Demonstrate knowledge of microwave ovens for electrical appliance service technicians</b>	4	4	<b>New</b>
<b>22766</b>	<b>Demonstrate knowledge of the operating principles of portable electrical appliances and power tools</b>	4	7	<b>New</b>
<b>22767</b>	<b>Demonstrate knowledge of operating principles and installation requirements of commercial electrical appliances</b>	4	7	<b>New</b>

## Domain Electrical Service Technicians

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
17798	Demonstrate knowledge of legislation and standards for electrical service technicians - single phase	3	2	B
17799	Demonstrate knowledge of electrical safety testing for electrical service technicians - single phase <b>Demonstrate knowledge of testing for electrical safety for electrical service technicians - single phase</b>	2	2	B
17800	Demonstrate knowledge of electrical control devices and simple electrical circuits	3	3	B
17801	Demonstrate knowledge of single phase motors for electrical service technicians	4	3	B
17802	Replace fuses and plug-in miniature circuit breakers	3	1	B
17803	Select and connect flexible cords in single phase plug-in and fixed wired applications	3	2	B
17804	Test single phase electrical appliances	3	2	B

Id	Title	Level	Credit	Review Category
17805	Disconnect and reconnect fixed wired single phase appliances <b>Disconnect and reconnect fixed wired single phase electrical appliances</b>	3	3	B
17806	Demonstrate knowledge of protection from the harmful effects of electricity	3	2	B
17807	Demonstrate knowledge of legislation and standards for electrical service technicians - three-phase	4	4	B
17808	Isolate electrical appliances from the supply	3	1	B
17809	Demonstrate knowledge of single and three-phase motors for electrical service technicians	4	5	B
17810	Connect single and three-phase electrical appliances and fittings	3	3	B
17811	Test single and three-phase electrical appliances	3	3	B
18090	Demonstrate knowledge of alternating current (a.c.) theory for electrical service technicians	4	5	B
18091	Demonstrate knowledge of three phase theory for electrical service technicians <b>Demonstrate knowledge of three-phase theory for electrical service technicians</b>	4	3	B