

Field Engineering and Technology

Revision and rollover of *Electrical Engineering* unit standards

Subfield	Domain	ID
Electrical Engineering	Electrical Appliance Servicing	1173, 1189, 1192, 6705, 16411, 18082, 18084-18089, 22763-22767
	Electrical Service Technicians	17798-17811, 18090, 18091
	Electrical Standards and Statutes	15860

The Skills Organisation has completed the revision and rollover of the unit standards listed above.

Date new versions published

September 2012

Planned review date

December 2014

Summary

The unit standards were revised to update the references to legislation and standards, update references to electrical licensing classes, extend the planned review date to 2014 in order to maintain currency during the Sector Review process, and standardise terms and phrases across the unit standards.

Main changes

- References to legislation and standards were updated.
- The opportunity was taken to standardise terms and phrases across the unit standards.
- The titles of unit standards 17798, 17799, 17801, 17803, 17804, 17805, 17809-17811, 18089, 18090, 22763, and 22765 were changed to reflect electrical licensing class changes and to standardise terms.
- The planned review date was amended to December 2014.

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 Skills Organisation qualifications are impacted by the outcome of this Revision and Rollover. The qualifications are not materially affected by the changes, and their achievability is not impacted. These qualifications are part of the current sector review of Electrical/Electrotechnology qualifications that began in 2011.

Ref	Qualification Title	ID
1093	National Certificate in Electronic Engineering (Level 3)	17799, 17801, 17803-17805, 17809-17811, 22763
1265	National Certificate in Electrical Engineering (Electrical Appliance and Electronic Servicing) (Level 3)	17798, 17799, 17801, 17803-17805, 22763
1266	National Certificate in Electrical Engineering (Electrical Appliance and Electronic Servicing) (Level 4) with strands in Commercial Electrical Appliances, Domestic Electrical Appliances, Electronic Consumer Goods, Office Equipment, and Portable Electrical	17809-17811, 18089, 18090, 22765

The following table identifies a qualification belonging to another SSB that is impacted by the outcome of this Revision and Rollover. The qualification is not materially affected by the changes, and its achievability is not impacted. This qualification is part of the current sector review of Electrical/Electrotechnology qualifications that began in 2011.

Ref	Qualification Title	ID	SSB Name
1098	National Certificate in Electricity Supply (Electrical Services Technician) (Level 4)	17798, 17803, 17804, 17809-17811, 18090	Electricity Supply Industry Training Organisation

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Engineering and Technology > Electrical Engineering > Electrical Appliance Servicing

ID	Title	Level	Credit
1173	Install and commission electrical appliances	4	5
1189	Service microwave ovens	4	3
1192	Fault-find, repair, and test portable electrical tools and appliances	3	2
6705	Test electrical appliances for safety	3	3
16411	Fault-find, repair, and re-commission fixed-wired electrical appliances	3	4
18082	Replace faulty motors in electrical appliances	4	4
18084	Demonstrate knowledge of refrigeration principles applicable to domestic appliances	4	6
18085	Demonstrate knowledge of the operating principles and installation requirements of domestic electrical appliances	4	7
18086	Draw and interpret diagrams of electrical appliances	3	4
18087	Exhibit customer service skills in electrical appliance servicing	3	3
18088	Demonstrate systematic fault finding techniques in electrical appliance servicing	3	3
18089	Demonstrate knowledge of domestic gas appliances for electrical appliance service technicians Demonstrate knowledge of domestic gas appliances for electrical appliance servicing	4	4

ID	Title	Level	Credit
22763	Service electrical or electronic goods to gain electrical service technician's registration Service electrical or electronic goods to gain electrical registration for electrical technicians and service persons	4	10
22764	Service electrical appliances	4	25
22765	Demonstrate knowledge of microwave ovens for electrical appliance service technicians Demonstrate knowledge of microwave ovens for electrical appliance servicing	4	4
22766	Demonstrate knowledge of the operating principles of portable electrical appliances and power tools	4	7
22767	Demonstrate knowledge of operating principles and installation requirements of commercial electrical appliances	4	7

Engineering and Technology > Electrical Engineering > Electrical Service Technicians

ID	Title	Level	Credit
17798	Demonstrate knowledge of legislation and standards for electrical service technicians – single phase Demonstrate knowledge of legislation and standards for electrical appliance servicepersons (EAS) and EAS (endorsed)	3	2
17799	Demonstrate knowledge of testing for electrical safety for electrical service technicians – single phase Demonstrate knowledge of testing for electrical safety for electrical appliance servicing – single-phase	2	2
17800	Demonstrate knowledge of electrical control devices and simple electrical circuits	3	3
17801	Demonstrate knowledge of single phase motors for electrical service technicians Demonstrate knowledge of single-phase motors for electrical appliance servicing	4	3
17802	Replace fuses and plug-in miniature circuit breakers	3	1
17803	Select and connect flexible cords in single phase plug-in and fixed wired applications Select and connect flexible cords in single-phase plug-in and fixed wired applications	3	2
17804	Test single phase electrical appliances Test single-phase electrical appliances	3	2
17805	Disconnect and reconnect fixed wired single phase electrical appliances Disconnect and reconnect fixed wired single-phase electrical appliances	3	3
17806	Demonstrate knowledge of protection from the harmful effects of electricity	3	2
17807	Demonstrate knowledge of legislation and standards for electrical service technicians – three-phase	4	4
17808	Isolate electrical appliances from the supply	3	1

ID	Title	Level	Credit
17809	Demonstrate knowledge of single and three-phase motors for electrical service technicians Demonstrate knowledge of single-phase and three-phase motors for electrical service technicians	4	5
17810	Connect single and three-phase electrical appliances and fittings Connect single-phase and three-phase electrical appliances and fittings	3	3
17811	Test single and three-phase electrical appliances Test single-phase and three-phase electrical appliances	3	3
18090	Demonstrate knowledge of alternating current (a.c.) theory for electrical service technicians Demonstrate knowledge of alternating current (a.c.) theory for electrical appliance servicing	4	5
18091	Demonstrate knowledge of three-phase theory for electrical service technicians	4	3

Engineering and Technology > Electrical Engineering > Electrical Standards and Statutes

ID	Title	Level	Credit
15860	Demonstrate knowledge of legislation and standards governing the work of electricians	3	2