

Field Engineering and Technology**Review of *Electronics Technology* unit standards 9221, 19743, 19744 and 19746**

Subfield	Domain	ID
Electronic Engineering	Electronics Technology	9221, 19743, 19744, 19746

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

Date new versions published

April 2010

Planned review date

December 2012

Summary

An industry consultation group involving ETITO, industry representatives, and other key stakeholders was established to undertake the review of the *Electronics Technology* unit standards contained in the National Certificate in Electronics Technology (Level 3) [Ref: 1005].

The review was carried out before its planned review date following feedback from industry that indicated that changes to the structure and content of the unit standards and qualification were required. Industry saw the need for the unit standards to better align with the NZ Curriculum and provide a more robust engineering pathway between the NCEA and industry.

Drafts of the reviewed unit standards were circulated to a wider industry group comprising accredited training providers, including schools, for comment. The feedback was considered by the consultation group and represented in the reviewed unit standards which were endorsed by the consultation group and industry.

The review of these unit standards ensures that they meet industry requirements, are fit for purpose, and enable consistent assessment and moderation.

Main changes

The review process has resulted in the following changes to the unit standards:

- merit grade was included in the unit standards
- title of unit standard 9221 was changed to more accurately reflect the content
- unit standards 19743 and 19744 were replaced by unit standards 26120 and 26122 respectively
- unit standard 19746 was designated expiring and will not be replaced as it is no longer fit for purpose
- three new unit standards were developed to accommodate developments in technology.

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

Impact on existing accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	ID	Level	Nature of accreditation	ID	Level
Standard	19743	3	Standard	26120	3
Standard	19744	3	Standard	26122	3

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0003 has been updated to reflect the new unit standards.

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 ETITO qualification is impacted by the outcome of this review and will be updated when it is next reviewed. The standards that generated the status *Affected* are listed in **bold**.

Qualification Title and Reference	ID
National Certificate in Electronics Technology (Level 3) [Ref: 1005]	9221, 19743, 19744, 19746

Detailed list of unit standards – 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

Engineering and Technology > Electronic Engineering > Electronics Technology

ID	Title	Level	Credit	Review Category
9221	Describe the development of a new electronic product Demonstrate knowledge of the development of an electronic product	3	3	B
19743	Demonstrate and apply knowledge of basic semiconductor devices	3	4	C
26120	Describe and construct circuits to demonstrate the operation and properties of electronic devices		3	

ID	Title	Level	Credit	Review Category
19744	Demonstrate knowledge of basic digital and analogue electronics concepts	3	5	C
26122	Demonstrate knowledge of and build circuits using digital electronic devices that interface with ADC and DAC functions		3	
19746	Demonstrate basic knowledge of electronic product quality and reliability	3	5	D
26119	Construct, and report on the performance of, a simple electronic programmable circuit	3	4	New
26121	Plan, construct, modify, and report on an electronic prototype	3	6	New
26123	Demonstrate knowledge of the practical applications of logic circuits	3	3	New