

Field Engineering and Technology

Review of *Electronic Engineering* unit standards

Subfield	Domain	ID
Electronic Engineering	Core Electronics	11572, 11573, 11580, 16968, 16969, 16993, 19747, 20719
	Electronic Installation and Maintenance	6061, 6066, 8213, 20722, 20726, 26724, 26726

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

August 2023

Planned review date

December 2028

Summary

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council reviewed 15 unit standards from the Electronic Engineering subfield between February 2023 and May 2023. The review involved consultation with providers and industry representatives including the New Zealand Navy.

The review identified that 10 out of the 15 unit standards will be designated expiring due to low or non-usage in the past five years. The remaining five unit standards that are being used were updated in line with current industry practices, standards, acts and regulations.

Main changes

- The 10 unit standards with low or no usage in the past five years were designated to expire.
- The five unit standards still in use were updated to meet industry requirements, current standards, acts and regulations.
- Unit standard 26724 was amended to include new range statements for performance criteria 1 and 2 covering transmitter equipment and receiver equipment.
- Standard setting details were updated to reflect the change of the standard setting body from ElectroTechnology Industry Training Organisation to Waihanga Ara Rau Construction and Infrastructure Workforce Development Council.

Category D unit standards will expire at the end of December 2024

The last date for assessment of superseded versions of Category B unit standards is December 2027

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 > Core Electronics

ID	Title	Level	Credit	Review Category
11572	Demonstrate and apply knowledge of electronic signal technology engineering	6	15	D
11573	Demonstrate and apply knowledge of power electronics technology engineering	6	15	D
11580	Demonstrate and apply knowledge of real-time programming in electrotechnology engineering	6	15	D
16968	Demonstrate and apply intermediate knowledge of electronic engineering	5	15	D
16969	Demonstrate and apply knowledge of digital systems technology	5	15	D
16993	Demonstrate electronic printed circuit board layout skills	4	5	D
19747	Demonstrate and apply fundamental knowledge of microcontrollers	3	5	B
20719	Demonstrate and apply knowledge of radio communications for electronics technicians	4	15	B

Engineering and Technology > Electronic Engineering > Electronic Installation and Maintenance

ID	Title	Level	Credit	Review Category
6061	Performance test and repair faulty radar equipment to unit or component level	4	12	B
6066	Diagnose and repair faulty electronic office equipment to module level	4	25	D
8213	Diagnose and repair a faulty microprocessor or microcontroller system	4	6	B
20722	Install and commission electronic equipment	4	25	D
20726	Diagnose and repair faulty electronic systems to module level	4	25	D
26724	Performance test and repair faulty electronic communications equipment	4	15	B
26726	Diagnose and repair faulty electronic equipment to component level	4	40	D