

Field Engineering and Technology

Review of *Electronic Engineering* unit standards

Subfield	Domain	ID
Electronic Engineering	Core Electronics	8195, 8211, 20615, 20712 - 20715, 20717, 26725, 30642
	Electronic Installation and Maintenance	8218

The Skills Organisation has completed the review of the unit standards listed above.

Date new versions published

June 2021

Planned review date

December 2025

Summary

The Skills Organisation (Skills) and industry representatives reviewed and developed unit standards to support unit standard based programmes for the New Zealand Certificate in Electronic Engineering (Level 4) [Ref: 2981].

Eleven unit standards were reviewed. Consultation occurred with industry representatives to ensure they are fit for purpose, current and relevant to the Electronic Engineering industry, and readily available for assessment. Industry representatives provided feedback from their networks.

Main changes

- Unit standards were updated to reflect the new template.
- Guidance information was updated to refer to current legislation and industry best practice.
- Outcomes and performance criteria were amended to clarify evidence requirements for assessment.
- Unit standards 20712 increased to 7 credits, and 26725 increased to 15 credits, to better reflect the notional learning hours.
- Titles of unit standards 20615 and 20715 were updated to better reflect outcomes.

The last date for assessment of superseded versions of Category B unit standards is December 2022

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
8195	Test and select batteries used in electronic applications and select suitable chargers	3	4	B

ID	Title	Level	Credit	Review Category
8211	Demonstrate and apply knowledge of switching power supplies	4	4	B
20615	Use electronic test equipment Demonstrate and apply knowledge of electronic test equipment	3	6	B
20712	Demonstrate and apply knowledge of d.c. principles for electronics technicians	4	6 7	B
20713	Demonstrate and apply knowledge of a.c. principles for electronics technicians	4	7	B
20714	Demonstrate and apply knowledge of digital principles for electronics technicians	4	7	B
20715	Demonstrate and apply knowledge of analogue electronics for electronics technicians Demonstrate and apply knowledge of analogue principles for electronics technicians	4	12	B
20717	Demonstrate and apply knowledge of electronic filters, oscillators, and frequency synthesisers	4	6	B
26725	Demonstrate and apply knowledge of electronic product reliability and advanced electronic measurement and diagnosis	4	10 15	B
30642	Demonstrate knowledge of specialist equipment used in electronic repairs	3	5	B

Engineering and Technology > Electronic Engineering > Electronic Installation and Maintenance

ID	Title	Level	Credit	Review Category
8218	Carry out soldering and de-soldering of printed circuit board mounted components and printed circuit board repair	3	8	B