

**Field      Engineering and Technology**

**Expiry of *Electrical Engineering* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Electrical Engineering	Core Electrical	18997, 18998, 22721 - 22724
	Electrical Installation and Maintenance	10783, 19001, 19002, 19004, 19006, 25631, 25634
	Electrical Standards and Statutes	19009
	Electrotechnology	4993

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

**Date new versions published**

**April 2023**

**Summary**

The standard setting responsibility for these unit standards was transferred to Waihangā Ara Rau Construction and Infrastructure Workforce Development Council from The Skills Organisation in October 2021.

Waihangā Ara Rau identified a group of unit standards which had little or no usage in the past five years and were no longer in current programmes.

Consultation occurred via email to providers with consent to assess these unit standards, Master Electricians' newsletter, and online meetings during 2023. There were no disagreements with the proposed expiry.

**Main changes**

- All unit standards were designated as expiring because they are no longer required.

**Category D unit standards will expire at the end of December 2025**

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

<b>Key to review category</b>	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</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
<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

Engineering and Technology > Electrical Engineering > Core Electrical

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
18997	Demonstrate advanced knowledge of capacitance, inductance, and magnetism in direct current circuits	5	4	D
18998	Demonstrate advanced knowledge of alternating current and three-phase theory	5	10	D
22721	Demonstrate and apply fundamental knowledge of electrical circuit engineering principles	3	15	D

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
22722	Demonstrate and apply introductory knowledge of electrical circuit engineering principles	4	15	D
22723	Demonstrate and apply intermediate knowledge of the elements of power engineering	5	15	D
22724	Demonstrate and apply knowledge of electrical machines	5	15	D

Engineering and Technology > Electrical Engineering > Electrical Installation and Maintenance

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
10783	Install, commission, and maintain generating sets driven by combustion engines	5	10	D
19001	Demonstrate advanced knowledge of electrical circuit protection	5	3	D
19002	Demonstrate advanced knowledge of electrical switchgear and switchboards	5	5	D
19004	Demonstrate knowledge of standby power plant	5	4	D
19006	Design simple electric lighting installations	5	5	D
25631	Demonstrate knowledge of and design documentation for the commissioning of significant electrical installations	5	5	D
25634	Demonstrate advanced knowledge of electrical installation practice and knowledge of data communication principles	5	10	D

Engineering and Technology > Electrical Engineering > Electrical Standards and Statutes

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
19009	Apply non-electrical legislation in the electrical industry	5	4	D

Engineering and Technology > Electrical Engineering > Electrotechnology

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
4993	Plan implementation of, manage, and review small to medium sized electrotechnology projects	5	6	D