

Field Engineering and Technology**Development of *Electrical Machines* unit standards**

Subfield	Domain	ID
Electrical Engineering	Electrical Machines	31741-31745

The Skills Organisation (Skills) has completed the development of the unit standards listed above.

Date new versions published

April 2019

Planned review date

December 2023

Summary

Skills and industry representatives developed five new unit standards to align with the training modules of the Electrical Apparatus Service Association (EASA) Distance Learning Programme.

These unit standards support unit standard based programmes for the New Zealand Certificate in Electrical Engineering (Electromechanical Maintenance and Repair) (Level 4) with optional strand in Electrical Service Technician (EST) [Ref: 2565].

The unit standards were developed with industry representatives to ensure they are fit for purpose, relevant to the Electromechanical Maintenance and Repair industry, and readily available for assessment. Industry representatives provided feedback from their networks.

Unit standards 31743 and 31744 are intended for the electromechanical and repair industry. These unit standards are different from unit standards 15865, 15858, and 29443, which are intended for electricians and other trades and, therefore, require more knowledge of electrical installation and operation.

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

Engineering and Technology > Electrical Engineering > Electrical Machines

ID	Title	Level	Credit
31741	Demonstrate knowledge of electrical theory for electromechanical maintenance and repair	3	9
31742	Demonstrate knowledge of electrical calculations and principles for electromechanical maintenance and repair	3	10
31743	Demonstrate knowledge of direct current machines for electromechanical maintenance and repair	3	8
31744	Demonstrate knowledge of alternating current machines for electromechanical maintenance and repair	4	15
31745	Demonstrate knowledge of safety in electromechanical maintenance and repair	4	8