

**FIELD                    ENGINEERING AND TECHNOLOGY****Review of *Electrical Machines* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>Id</b>
Electrical Engineering	Electrical Machines	1184, 1185, 2014, 5928, 15858, 15865, 16413, 16416, 19469, 19470, 19471

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

**Date new versions published**

**August 2008**

**Planned review date**

**December 2012**

**Summary of review and consultation process**

The National Certificate in Electrical Engineering (Motor Rewinding and Repair) [Ref: 0412] and its component unit standards were reviewed as part of the scheduled review process for standards and was conducted by ETITO in conjunction with industry stakeholders. The review reflected the experience of several years of training, assessment, and industry experience. It also took into account the future skill requirements of the industry.

Two consultation meetings were held with industry stakeholders to ensure the unit standards within the electrical machines domain and qualification were fit for purpose.

**Main changes resulting from the review**

- Standards 1184, 16413 and 19469 have had minor changes to special notes.
- Standards 1185, 15858, 15865, 16413, 16416, 16469, 19470 and 19471 have had minor changes to performance criteria.
- Standard 19470 has had one performance criteria removed and a minor change to an element.
- Standards 15858 and 15865 have had performance criteria added.
- Standard 15865 has been amended to match others in the domain.
- All standards have undergone formatting updates.

**Impact on existing provider accreditations**

None.

**Impact on Accreditation and Moderation Action Plan (AMAP)**

None.

## Impact on existing qualifications

National Certificate in Electrical Engineering (Electrician for Registration) [Ref: 1195] is not materially affected by the changes. It has also been reviewed, and updated to take account of the change to title for standard 15865.

## Review Categories and changes to classification, title, level and credits

All changes are in **bold**.

Key to review category	
<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

Subfield      Electrical Engineering  
Domain        Electrical Machines

Id	Title	Level	Credit	Review Category
1184	Test, locate and diagnose faults in electrical machine windings	3	2	B
1185	Prepare electrical machines for rewinding	4	6	B
2014	Overhaul a.c. rotating machines and control equipment	4	5	B
5928	Overhaul d.c. rotating machines and control equipment	4	5	B
15858	Demonstrate knowledge of a.c. motors	4	7	B
15865	Demonstrate knowledge of direct current (d.c.) machines <b>Demonstrate knowledge of d.c. machines</b>	4	5	B
16413	Fault-find, repair and test electric motors	4	8	B
16416	Service bearings and seals in electrical rotating machines	2	1	B
19469	Demonstrate knowledge of electric machine winding	4	5	B
19470	Rewind electric machines	4	10	B
19471	Reassemble and test electric machines following rewinding	4	8	B
<b>24890</b>	<b>Lift and transport electrical machines and associated repair equipment within a motor rewinding workshop environment</b>	<b>3</b>	<b>3</b>	<b>New</b>