

Title	Service bearings and seals in electrical rotating machines		
Level	2	Credits	1

Purpose	<p>This unit standard is for people who service bearings and seals in electric motors and generators.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – service bearings in electrical rotating machines; and – service seals in electrical rotating machines.
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Classification	Electrical Engineering > Electrical Machines
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been developed for learning and assessment on-job.
- 2 Reference
Health and Safety at Work Act 2015;
and all subsequent amendments and replacements.
- 3 Definition
Specifications – machine specifications, maintenance instructions, or bearing manufacturers’ recommendations relating to removal, cleaning, testing, and fitting of bearings and seals, and the types of lubricants to be used.
- 4 Assessment
Demonstration of *safe working practices* and installation in accordance with *safe and sound practice* are essential components of assessment against this unit standard.

Outcomes and performance criteria

Outcome 1

Service bearings in electrical rotating machines.

Range sleeve bearings, ball bearing, roller bearings.

Performance criteria

- 1.1 Bearings are removed from the machine without damage to the machine and in accordance with specifications.

- 1.2 Bearings are cleaned, and where appropriate, washed and dried, in accordance with specifications.
- 1.3 Filter and drain plugs are cleaned in accordance with specifications.
- 1.4 Oil passages and wells are drained, flushed, and refilled in accordance with specifications.
- 1.5 Bearings are inspected, and replaced if necessary, in accordance with specifications.

Range inspection includes but is not limited to – signs of scoring, restriction in lubrication channels, measurement of wear.
- 1.6 Bearings are lubricated and fitted without damage to bearing or the machine in accordance with specifications.
- 1.7 Documentation is completed in accordance with company requirements.

Outcome 2

Service seals in electrical rotating machines.

Performance criteria

- 2.1 Seals are removed from the machine without damage to the machine, and in accordance with specifications.
- 2.2 Seals are cleaned, inspected for wear, and replaced if necessary, in accordance with specifications.
- 2.3 Seals are fitted without damage to seal or the machine, and in accordance with specifications.
- 2.4 Documentation is completed in accordance with company requirements.

Replacement information	This unit standard replaced unit standard 5927.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 June 1999	31 December 2013
Revision	2	3 April 2001	31 December 2013
Review	3	26 May 2005	31 December 2013
Review	4	22 August 2008	31 December 2024
Rollover and Revision	5	15 March 2012	31 December 2024
Revision	6	15 January 2014	31 December 2024
Review	7	22 August 2019	31 December 2024

Consent and Moderation Requirements (CMR) reference

0003

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.