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| Title | Demonstrate knowledge of electrical installation in damp situations | | |
| Level | 4 | Credits | 3 |

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| Purpose | <p>This unit standard relates to installation of electrical equipment in damp areas such as bathrooms or swimming pools.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – recognise damp situations with respect to electrical equipment; – demonstrate knowledge of the Ingress Protection (IP) code; – demonstrate knowledge of the zone system of classification in damp areas; and – demonstrate knowledge of the requirements of current regulations and standards for installation in damp situations. |
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| Classification | Electrical Engineering > Electrical Installation and Maintenance |
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| Available grade | Achieved |
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Guidance Information

- 1 This unit standard has been developed for learning and assessment off-job.
- 2 Achievement of this unit standard does not by itself imply that trainees may legally perform prescribed electrical work in their own right. Until they are registered and licensed under the Electricity Act 1992, trainees are assisting, and must work under the supervision of a Supervisor of Electrical Work when carrying out prescribed electrical work. If the prescribed electrical work in question is carried out for reward the Supervisor of Electrical Work must hold a valid practising licence.
- 3 References
 Electricity Act 1992;
 Electricity (Safety) Regulations 2010;
 Health and Safety at Work Act 2015;
 AS/NZS 3000:2018, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*, including Amendment 1;
 AS 1939 Supp 1-1990, *Degrees of protection provided by enclosures for electrical equipment (IP Code) – Wallchart 1 (Supplement 1 to AS 1939:1990)*;
 and all subsequent amendments and replacements.
- 4 Definition
 The term *current regulations and standards* is used in this unit standard to refer to the requirements of the above references.

- 5 Candidates may refer to current regulations and standards during assessment against this unit standard.

Outcomes and performance criteria

Outcome 1

Recognise damp situations with respect to electrical equipment.

Performance criteria

- 1.1 The need for special treatment in wet or damp areas is explained in terms of safety to people and equipment.
- 1.2 The term *damp situation* is defined in accordance with current regulations and standards.
- 1.3 The situations recognised as damp are identified in accordance with current regulations and standards.

Outcome 2

Demonstrate knowledge of the IP code.

Performance criteria

- 2.1 The meanings of the first and second digits of the IP code are explained in accordance with current regulations and standards.
- 2.2 The degree of protection afforded by each combination is described in accordance with current regulations and standards.
- Range ingress of solid bodies, protection of persons against contact with live or moving parts, protection against the ingress of liquids.
- 2.3 IP ratings are assigned to enclosure descriptions in accordance with current regulations and standards.
- Range enclosure descriptions – dust-protected, weather-protected, drip-proof, splash-proof, hose-proof, screen-protected, open, guarded, totally enclosed.

Outcome 3

Demonstrate knowledge of the zone system of classification in damp areas.

Performance criteria

- 3.1 Zones are identified for accessories in given positions in the vicinity of swimming pools and spas according to current regulations and standards.

- 3.2 Zones are identified for accessories in given positions in the vicinity of baths and showers according to current regulations and standards.

Outcome 4

Demonstrate knowledge of the requirements of current regulations and standards for installation in damp situations.

Performance criteria

- 4.1 Common requirements applying to all damp situations are identified according to current regulations and standards.

Range wiring system, means of connection, accessories, appliances, luminaires, earthing and bonding.

- 4.2 Permissible locations of electrical accessories are identified from current regulations and standards.

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| Replacement information | This unit standard and unit standard 15869 replaced unit standard 2018 and unit standard 2029. |
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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 | 10 February 1999 | 31 December 2013 |
| Review | 2 | 26 May 2005 | 31 December 2027 |
| Rollover and Revision | 3 | 15 March 2012 | 31 December 2027 |
| Revision | 4 | 15 January 2014 | 31 December 2027 |
| Rollover and Revision | 5 | 28 January 2021 | 31 December 2027 |
| Review | 6 | 25 May 2023 | 31 December 2027 |

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| Consent and Moderation Requirements (CMR) reference | 0003 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.