

<b>Title</b>	<b>Demonstrate knowledge of cords, cables, and cable installation</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of: <ul style="list-style-type: none"> <li>– cords and cables; and</li> <li>– cable installation and handling techniques.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Core Electrical
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<b>Available grade</b>	Achieved
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## Guidance Information

- 1 References  
AS/NZS 3000 (version as cited in the Electricity (Safety) Regulations), *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*;  
AS/NZS 3008.1.2:2017 *Electrical installations - Selection of cables, Cables for alternating voltages up to and including 0.6/1 kV - Typical New Zealand conditions*;  
New Zealand Building Code;  
or any current subsequent amendments and replacements.
- 2 This unit standard can be used together with other relevant unit standards, additional learning and workplace training to meet the requirements of the Electrical Workers Registration Board (EWRB) core competencies, available at <https://www.ewrb.govt.nz>.
- 3 Candidates are expected to locate and reference the relevant clauses in the electrical Standards relating to this unit standard.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of cords and cables.

### Performance criteria

- 1.1 Describe the construction, configuration, core colours and typical ratings of common cords and cables.

Range	three common cords or cables; may include but is not limited to — conductor materials, construction, configuration, conductor type, insulation, armouring, screening, sheathing, permitted colours.
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- 1.2 Explain the factors to be considered when choosing cables for different situations.
- Range two situations;  
situations may include but are not limited to — chemicals, oil or petrol, excessive weight or strain, high or low temperature, mechanical damage.
- 1.3 Identify the environmental suitability and typical applications for common cords or cables.
- Range three common cords or cables.
- 1.4 Outline the scope and contents of AS/NZS 3008.1.2.
- Range purpose, two main section headings.

## Outcome 2

Demonstrate knowledge of cable installation and handling techniques.

### Performance criteria

- 2.1 Identify common cable installation methods for different situations.
- Range two situations;  
installation methods may include but are not limited to — secured to surface, enclosed in conduit or trunking, on cable rack, on catenary, on insulators, underground.
- 2.2 Identify installation requirements for cables in AS/NZS 3000.
- Range three installation requirements.
- 2.3 Outline appropriate cable handling techniques.
- Range two cable handling techniques.  
may include but not limited to — techniques for drawing in, running/placing, fixing, terminating.

<b>Planned review date</b>	31 December 2026
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 March 2022	N/A

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

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**Comments on this unit standard**

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.