| Title | Plan and install cable support systems | | |
|---|---|---|---|
| Level | 3 | Credits | 3 |

| | |
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| **Purpose** | This unit standard covers the installation of support systems for electrical cables, and is for people wishing to qualify in the electrical or related industries.<br><br>People credited with this unit standard are able to:<br>– plan cable support systems; and<br>– install cable support systems. |

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| **Classification** | Electrical Engineering > Electrical Installation and Maintenance |

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|---|---|
| **Available grade** | Achieved |

**Guidance Information**

1 This unit standard has been developed for learning and assessment on-job.

2 References
Electricity (Safety) Regulations 2010;
Health and Safety in Employment Act 1992;
AS/NZS 3000:2007, *Electrical installations (known as the Australian/New Zealand Wiring Rules),* including Amendment 1;
and all subsequent amendments and replacements.

3 Definitions
The term *current regulations and standards* is used in this unit standard to refer to the requirements of the above references.
The term *safe and sound practice* relating to the installation of electrical equipment is defined in AS/NZS 3000:2007.

4 Range
a Demonstration of *safe working practices* and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
b *Cable support systems* – cable tray or ladder rack, conduit or ducting, catenary wire.

## Outcomes and performance criteria

### Outcome 1

Plan cable support systems.

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**Performance criteria**

1.1 Intended use and appearance of the cable support system are established from job instructions, specifications, or discussion with customer.

1.2 Cable support system is selected to match job requirements.

Range job requirements – volume and type of cables, minimum size requirements of current regulations and standards, environment, cost, customer preference.

1.3 Cable support route is planned with consideration for mounting surfaces, possible obstructions, length, and presence of other services.

**Outcome 2**

Install cable support systems.

**Performance criteria**

2.1 Cable support system is fixed in position in accordance with manufacturer's guidelines where applicable, and to current regulations and standards.

2.2 Cable support components are installed square and plumb, and are securely attached using fastenings appropriate to the weight of the components and the material of the mounting. In the case of metallic support systems, earth continuity meets current regulations and standards.

2.3 Installation is completed to customer requirements.

2.4 Installation is documented according to company requirements.

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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.**

This unit standard is expiring


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**Status information and last date for assessment for superseded versions**

| Process | Version | Date | Last Date for Assessment |
|---|---|---|---|
| Registration | 1 | 22 April 1994 | 31 December 2013 |
| Review | 2 | 23 April 1996 | 31 December 2013 |
| Review | 3 | 28 June 1999 | 31 December 2013 |
| Revision | 4 | 3 April 2001 | 31 December 2013 |
| Review | 5 | 26 May 2005 | 31 December 2021 |
| Rollover and Revision | 6 | 15 March 2012 | 31 December 2021 |
| Revision | 7 | 15 January 2014 | 31 December 2021 |
| Review | 8 | 21 July 2016 | 31 December 2027 |
| Review | 9 | 24 March 2022 | 31 December 2027 |
| Rollover and Revision | 10 | 25 May 2023 | 31 December 2027 |

| Consent and Moderation Requirements (CMR) reference | 0003 |
|---|---|

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

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