

Title	Install electronic security intercom equipment and systems		
Level	3	Credits	7

Purpose	<p>This unit standard is intended for the training and assessment of people working in or intending to work in the electronic security industry and covers the installation of security intercom systems.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – demonstrate knowledge of security intercom systems installation; – install intercom systems; and – test, commission, and hand over intercom systems.
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Classification	Electronic Engineering > Electronic Security
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Available grade	Achieved
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Prerequisites	Unit 26841, <i>Demonstrate knowledge of electronic security systems and equipment</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 This unit standard has been developed for learning and assessment on-job.
- 2 Persons working or intending to work as a security officer or in related security employment may require a Security Guards Licence or, if an employee of a Security Guard Licence holder, a Certificate of Approval to be the Responsible Employee of a Security Guard. These licences are issued by the Private Security Personnel Licensing Authority available through: www.justice.govt.nz/tribunals/licences-certificates/pspla/.
- 3 References
 Building Act 1991;
 Electricity Act 1992;
 Electricity Regulations 1997;
 Health and Safety at Work Act 2015;
 Private Investigators and Security Guards Act 1974;
 AS/NZS 3000:2018, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*;
 Local territorial authority requirements;
 and all subsequent amendments and replacements.

- 4 Range
- a Candidates must refer to current legislation and Standards during assessment.
 - b Demonstration of safe working practices in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
 - c All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
 - i legislation;
 - ii policies and procedures;
 - iii ethical codes;
 - iv Standards;
 - v applicable site, enterprise, and industry practice; and,
 - vi where appropriate, manufacturer instructions, specifications, and data sheets.
 - d Intercom system types include but are not limited to – audio only systems, audio video systems, all master systems, master slave systems; systems may be hard wired audio or video, or radio.
 - e Peripheral devices include but are not limited to – remote slave audio units, remote slave audio video units, power supplies, microphones, speakers, impedance matching transformer, horn speaker, interfaces to other systems; evidence for five peripheral devices is required.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of security intercom systems installation.

Range may include but is not limited to – master and slave audio stations; video interphone master and slave; single and multi station call up panel; power supply; amplifier; ethernet intercoms; Wi-Fi intercoms; may incorporate access control readers; keypads for entry; remote unlock from an apartment or from a smart phone; keypad entry at the door station that unlocks a door; card access at the door station that unlocks a door; a selection of interconnections between master and door station such as direct 2 wire, bus based systems, and IP based systems; evidence of eight is required.

Performance criteria

- 1.1 Describe components of security intercom systems and identify their features in terms of functionality and installation requirements of locking.
- 1.2 Explain the purpose of each component with respect to the complete system.
- 1.3 Use specifications to identify variations of performance and operation of equivalent components from two manufacturers.

Outcome 2

Install intercom systems.

Range may include but is not limited to – master and slave audio stations; video interphone master and slave; single and multi-station call up panel; power supply; amplifier; ethernet intercoms; Wi-Fi intercoms; may incorporate access control readers; keypads for entry; remote unlock from an apartment or from a smart phone; keypad entry at the door station that unlocks a door; card access at the door station that unlocks a door; a selection of interconnections between master and door station such as direct 2 wire, bus based systems, and IP based systems; evidence of eight is required.

Performance criteria

- 2.1 List control equipment and peripheral devices required and verify against design or supplied installation specification or agreed customer needs.
- 2.2 Complete installation and confirm connections.

Outcome 3

Test, commission, and hand over intercom systems.

Performance criteria

- 3.1 Test to confirm control equipment, peripheral devices, and system are operational and fit for purpose and record performance.
- 3.2 Rectify any system performance failure or deficiency and retest the system.
- 3.3 Complete the handover documentation in the agreed format in accordance with customer requirements.
- 3.4 Brief client on system operation.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	14 December 2017	N/A
Rollover and Revision	2	27 October 2022	N/A

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>.

Comments on this unit standard

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