

<b>Title</b>	<b>Demonstrate knowledge of electronic security devices</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<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 knowledge of electronic security devices.</p> <p>People credited with this unit standard are able to demonstrate knowledge of the purpose and application of:</p> <ul style="list-style-type: none"> <li>– electronic intruder alarm system devices;</li> <li>– electronic access control system devices;</li> <li>– surveillance system devices; and</li> <li>– intercom system devices.</li> </ul>
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<b>Classification</b>	Electronic Engineering > Electronic Security
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard has been developed for learning and assessment off-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/](http://www.justice.govt.nz/tribunals/licences-certificates/pspla/).
- 3 Definitions  
 I/O – input output;  
*Safe and sound practice* – as it relates to the installation of electrical equipment is defined in AS/NZS 3000:2007, *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*.  
*Surveillance systems* may include but are not limited to – camera fixed lens, auto iris lens, video monitor, video intercom, lighting.
- 4 References – Specific to Electronic Security Industry  
 New Zealand Security Association (Inc), *Code of Practice for Alarm Monitoring Centres*, 2007;  
 New Zealand Security Association (Inc), *Code of Practice for Camera Surveillance Systems*, 2012;  
 New Zealand Security Association (Inc), *Code of Practice for Electronic Access Control*, 2008;

New Zealand Security Association (Inc), *Code of Practice for Intruder Alarm Systems*, 2007;

Codes of Practice available from: <http://security.org.nz>.

AS/NZS 2201.1:2007, *Intruder alarm systems – Client's premises – Design, installation, commissioning and maintenance*;

AS/NZS 2201.5:2008, *Intruder alarm systems – Alarm transmission systems*; and all subsequent amendments and replacements.

References – General to Electronic Security Industry

Building Act 2004;

Electricity (Safety) Regulations 2010;

Health and Safety at Work Act 2015;

Private Security Personnel and Private Investigators Act 2010;

Privacy Act 2020;

AS/NZS 3000:2007, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*;

NZS 4512:2021, *Fire detection and alarm systems in buildings*;

NZS 4514:2021, *Interconnected smoke alarms for houses*;

Telecommunications Act 2001;

Local territorial authority requirements;

and all subsequent amendments and replacements.

## 5 Range

a Candidates must refer to current legislation and Standards during assessment.

b 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 safe and sound practice;

vi applicable site, enterprise, and industry practice; and,

vii where appropriate, manufacturer instructions, specifications, and data sheets.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the purpose and application of electronic intruder alarm system devices.

Range intruder alarm system devices include but are not limited to – passive infra-red (PIR) detector, smoke detector, microwave detector, point-to-point beam, outdoor detectors, duress switch, reed switch, keypad, glass break sensor, seismic sensor, dual detector, internal and external siren, piezo, alarm panels, I/O monitoring devices, device software programmes; evidence of 10 devices is required.

**Performance criteria**

- 1.1 Explain the purpose of each system device.
- 1.2 Explain typical applications of each selected system device.
- Range evidence is required of two applications for each selected device, including environmental considerations.
- 1.3 Explain the connection and adjustment requirements, where applicable, for each selected system device.

**Outcome 2**

Demonstrate knowledge of the purpose and application of electronic access control system devices.

Range access control system devices include but are not limited to – electric strikes, electric mortise locks, credential reader (may be key, card, tag, or biometric), egress switch, electronic bolts, reed switch, bond sensor, magnetic clamps, power supplies and cable voltage drop, motor driven electronic locks; evidence of six is required.

**Performance criteria**

- 2.1 Explain the purpose of each system device.
- 2.2 Explain typical applications of each system device.
- Range evidence is required of two applications for each selected device, including environmental considerations.
- 2.3 Explain the connection and adjustment requirements, where applicable, for each selected system device.

**Outcome 3**

Demonstrate knowledge of the purpose and application of surveillance system devices.

Range analogue cameras and lenses, analogue cabling systems, high resolution digital cameras and lenses, digital cabling systems, analogue and digital power supplies, digital recording systems, display systems, simple network solutions.

**Performance criteria**

- 3.1 Describe the purpose of each system device.
- 3.2 Explain typical applications of each system device.
- Range evidence is required of two applications for each device, including environmental considerations.

- 3.3 Explain the connection and adjustment requirements, where applicable, for each selected system device.

#### Outcome 4

Demonstrate knowledge of the purpose and application of intercom system devices.

Range intercom system devices include but are not limited to – audio intercom, video intercom, locking interface, master and slave station, gate station.

#### Performance criteria

- 4.1 Describe the purpose of each system device.

- 4.2 Explain typical applications of each system device.

Range evidence is required of two applications for each device, including environmental considerations.

- 4.3 Explain the connection and adjustment requirements, where applicable, for each selected system device.

<b>Planned review date</b>	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	18 November 1997	31 December 2011
Revision	2	3 April 2001	31 December 2011
Revision	3	11 March 2004	31 December 2012
Rollover	4	21 November 2008	31 December 2012
Review	5	19 November 2010	31 December 2022
Revision	6	17 June 2011	31 December 2022
Review	7	14 December 2017	N/A
Rollover and Revision	8	27 October 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>.

#### Comments on this unit standard

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