

Title	Design commercial locking systems		
Level	4	Credits	15

Purpose	People credited with this unit standard are able to: establish customer security requirements; produce a specification and schedule of quantities, and make recommendations for commercial and institutional locking systems.
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Classification	Mechanical Engineering > Locksmithing
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Available grade	Achieved
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Guidance Information ¶

- 1 Unit 12925, *Demonstrate knowledge of locksmithing ethics*; Unit 12912, *Design residential and light commercial locking systems*; and an ability to read and interpret building plans and specifications are recommended for entry into this unit standard.
- 2 References and legislation
Health and Safety at Work Act 2015.
The New Zealand Building Code regulations.
- 3 Definitions
Accepted industry practice refers to codes of practice and standardised procedures accepted by the wider locksmithing industry as examples of best practice.
Commercial locking systems refers to a range of heavy grade locking systems that include master key systems to grand master key (GMK) level, keyless locking systems, electronic locking systems, other security devices, and associated hardware.
Locking systems – commercial or institutional.
Workplace procedures refer to the procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 4 Assessment information
All activities must comply with applicable workplace procedures and must be consistent with accepted industry practice. The placement of locking devices on building egress points must comply with the New Zealand Building Code.

Outcomes and performance criteria

Outcome 1

Establish customer security requirements.

Performance criteria

- 1.1 Customer's requirements and the design parameters are ascertained.
- 1.2 Building plans and drawings are read and interpreted to determine the systems requirements.
- 1.3 Customer's premises are surveyed, and security needs are identified in accordance with customer's requirements and building egress regulations.

Outcome 2

Produce a specification and schedule of quantities, and make recommendations for commercial and institutional locking systems.

Range doors, windows, furniture, gates, internal fixtures.

Performance criteria

- 2.1 The available commercial locking systems product range is identified and described in terms of the function and purpose of each.
- 2.2 A design specification is produced and recommendations made in accordance with the customer's requirements.

Range hardware selection, schedule of quantities, hardware design, master key system, and may include an electronic key system; hardware may include – mechanical locks, door closures, guards, handles, specialist hardware, electronic locking systems, electro-mechanical locks, auto-door openers, exit devices, bolts, signage, fittings, hinges, door seals.

- 2.3 A quote is produced in accordance with the customer's requirements.

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	24 March 1998	31 December 2018
Review	2	29 July 2002	31 December 2018
Review	3	19 May 2006	31 December 2022
Review	4	1 March 2018	N/A

Consent and Moderation Requirements (CMR) reference

0013

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

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.