

Title	Apply knowledge of demographics and geography to the design of a zero waste service		
Level	5	Credits	12

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the demographics and geography of a community; and apply demographic and geographic data to the design of a zero waste service.
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Classification	Zero Waste > Zero Waste Theory and Practice
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Available grade	Achieved
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Guidance Information

- References relevant to this unit standard include but are not limited to:
The New Zealand Waste Strategy, Ministry for the Environment, available at <http://www.mfe.govt.nz>.
- Definitions
Service for this unit standard refers to any resource recovery operation based on zero waste principles such as a transfer station, resource recovery park, recycling centre, kerbside collection, commercial collection, event facilities, waste exchange, or zero waste education.
Valid means fit for purpose, and relating solely to the attributes or data being gathered and analysed. Where applicable, the term *valid* should also be taken to mean statistically valid.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the demographics and geography of a community.

Performance criteria

- 1.1 The demographic composition of a community is identified and supported by verified statistical evidence.

Range includes but is not limited to – population (including fluctuation), number of dwellings and/or businesses, ethnicity, occupancy rate, rural and/or urban, catchment area.

- 1.2 The geographical characteristics of a community are identified and supported by verified evidence.
- Range includes but is not limited to – climate, topography, catchment area, infrastructure (including roading), types of industry.
- 1.3 Other services operating in a community are identified in relation to managing waste.
- Range may include but is not limited to – territorial authorities, commercial operations, community groups, community services, transport operators.
- 1.4 Markets for products are identified in relation to the community.
- Range markets – local, distant.

Outcome 2

Apply demographic and geographic data to the design of a zero waste service.

Performance criteria

- 2.1 Demographic data used to support the design is traceable, valid, and unambiguous.
- 2.2 Geographic data used to support the design is relevant to the type of service.
- Range may include but is not limited to – existing infrastructure, potential infrastructure.
- 2.3 Application of data is congruent with the information gathered from an analysis of the specified community.
- Range data includes but is not limited to – competing and complementary operations that impact on the service; potential markets for the service and/or its products.
- 2.4 Application of data meets recipient requirements for format, style, detail, and complexity.
- 2.5 The design explains data application in relation to statistical evaluation.
- Range may include but is not limited to – interpretation methods used, assumptions made, conclusions drawn.
- 2.6 Presentation of the data meets organisational and legislative requirements for timing, distribution, confidentiality, and security.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 January 2007	31 December 2025
Rollover and Revision	2	28 March 2019	31 December 2025
Review	3	27 February 2025	31 December 2025

Consent and Moderation Requirements (CMR) reference

0014

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