

Title	Advise on zero waste options for an industry		
Level	6	Credits	40

Purpose	People credited with this unit standard are able to: analyse the zero waste status of an industry; and recommend improvements to raise the zero waste status of an industry
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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: Reducing Harm, Improving Efficiency* 2010 Ministry for the Environment, available at <http://www.mfe.govt.nz>.
- Assessment against this unit standard requires evidence of advice relating to all phases of an industry or industry sector including derivation of resources, manufacturing, use, and disposal.

Outcomes and performance criteria

Outcome 1

Analyse the zero waste status of an industry.

Performance criteria

- The analysis identifies and explains current environmental protection initiatives for the selected industry.

Range environmental management systems, environmental performance evaluation, environmental reviewing and auditing, life cycle assessment, corporate social responsibility, corporate sustainability reporting.
- The analysis identifies and explains operating practices in the selected industry.

Range material handling, production scheduling, procedural measures, management, optimisation, by-product separation, material changes/substitution, product specification.

- 1.3 The analysis identifies and explains cleaner production tools used in the selected industry.
- Range product design and redesign, environmental software, waste minimisation assessment, product improvement analyses, risk reduction analyses, total cost assessment.
- 1.4 The analysis identifies and explains legislation, policy, and regulation promoting transition to a sustainable society that impacts on the selected industry.
- Range government – national, regional, local; transition by – proactive approach, penalty, preventive measure.
- 1.5 The analysis identifies where resource use may be reduced and illustrates these with examples or case studies.
- Range reduction by – process design modification, introduction of environmentally friendly technology, equipment replacement, automation, process control.
- 1.6 The analysis explains barriers to the reuse of materials common to the selected industry and illustrates these with examples or case studies.
- Range barriers – variations in product quality, poor labelling of materials, price fluctuations, perceptions of quality, low volumes, high transport costs, product contamination.

Outcome 2

Recommend improvements to raise the zero waste status of an industry.

Range recommendations may be presented as a written report, or a conference presentation, or an address to industry stakeholders.

Performance criteria

- 2.1 Recommendations to minimise environmental degradation prioritise areas for action in accordance with *The New Zealand Waste Strategy*, and industry capacity for change.
- Range includes but is not limited to – industrial emissions, waste management infrastructure.
- 2.2 Recommendations are made that maintain and encourage the principle of resource efficiency.
- Range resource efficiency during – manufacture or import, distribution, use, reuse, recycling, disposal.

- 2.3 Recommendations are made that support the principle of cleaner production.
- Range product design, elimination of hazardous inputs, manufacture, process design, packaging, distribution; evidence is required of five products.
- 2.4 Recommendations are made that support the principle of proximity.
- Range reduction of imported components, quality of local materials, quantity of local materials, quality of local labour, local recycling options.
- 2.5 Recommendations are made that integrate the principles of product stewardship in sharing responsibility for reducing the environmental footprint of product.
- Range stewardship by – importers or manufacturers, marketers, distributors, retailers, users, disposers.
- 2.6 Recommendations meet industry expectations for efficient and cost-effective solutions to current problems of excessive waste production.
- 2.7 Recommendations are made that are supported by analysis of statistical data.
- Range data may include but is not limited to – financial records, survey of enterprises, stakeholder questionnaire.
- 2.8 Recommendations are made that provide opportunities for manufacturers to support the principle of sustainability.
- Range five opportunities from – increase productivity, reduce true costs, develop modular products, design for reuse and/or recycling, reduce toxic substance use, reuse containers, foster market innovation, provide customer choice.
- 2.9 Recommendations are made that provide opportunities for retailers to support the principle of sustainability.
- Range three opportunities from – reduce packaging, reuse containers, reduce marketing costs, informing customer choice, enabling returns for recycling.
- 2.10 Recommendations are made that provide opportunities for government to support the industry in adopting and maintaining sustainable practices.
- Range three opportunities from – product procurement, infrastructure for recycling, certification, regulation, tendering.

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>.