Title	Plan, prepare, and implement a zero waste product development project			
Level	6	Credits	60	

Purpose	This unit standard is for leaders of projects for product development.
	People credited with this unit standard are able to: plan and prepare for, and implement a zero waste product development project.

Classification	Zero Waste > Zero Waste Theory and Practice	
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Available grade	Achieved	

Guidance Information

- 1 References relevant to this unit standard include but are not limited to: Hazardous Substances and New Organisms Act 1996 (HSNO Act); *The New Zealand Waste Strategy: Reducing Harm, Improving Efficiency* 2010 Ministry for the Environment, available at <u>http://www.mfe.govt.nz;</u> New Zealand Business Council for Sustainable Development information on product development and stewardship available on the Supply Chain website pages at <u>http://www.nzbcsd.org.nz;</u> AS/NZS ISO 14001:2016: *Environmental management systems – Requirements with guidance for use* available at <u>http://www.standards.co.nz;</u> Case studies for Target Zero at <u>http://www.ccc.govt.nz</u>.
- 2 The initiative may be implemented in a community group, commercial, or industrial context.
- 3 It is expected that candidates will have prior experience of project management before seeking credit for this unit standard.
- 4 Definition

Product development for this unit standard includes developing a new or existing product following the principles and practices of zero waste. The product itself may or may not be for the zero waste sector.

Outcomes and performance criteria

Outcome 1

Plan and prepare for a zero waste product development project.

Performance criteria

1.1 Planning determines the scope by consultation with the stakeholders involved in the project.

Range product development, marketing, process development, engineering, planning, packaging, distribution, purchasing, finance, customer services, health and safety, legal.

1.2 A project brief is prepared that outlines objectives and success criteria consistent with zero waste principles.

Range principles – sustainability, resource efficiency, cleaner production.

1.3 Preparation researches design options that meet zero waste concepts of disassembly, and reuse of whole product or its parts.

Range may include but is not limited to – product standardisation.

- 1.4 Preparation researches appropriateness of inputs to meet zero waste concepts for materials.
 - Range non-toxic, local, recycled, sustainably harvested, sustainably produced, renewable.
- 1.5 Preparation researches process options that meet the zero waste principle of sustainability.

Range energy conservation, reduction of rework and discards, reuse of scraps, recycling of consumables including but not limited to – chemicals, elimination of toxic substances.

- 1.6 Preparation researches certification options for relevance to the product and selects the option that meets specified objectives.
 - Range certification may include but is not limited to Enviro-mark, Biogro, ISO 14001, Environmental Choice New Zealand.
- 1.7 Preparation ensures that options are researched to determine marketing and packaging in accordance with zero waste principles.

Range marketing – information provided with product, environmental impact of product, economic benefits, social benefits; packaging – minimising, reusing, returnable, transport requirements.

1.8 Preparation researches legislative requirements for the product to ensure compliance obligations are incorporated in the plan.

Range may include but is not limited to – HSNO Act.

Outcome 2

Implement a zero waste product development project.

Performance criteria

2.1	Initial product sample meets key requirements stated in the brief.		
	Range	brief may include – amendment justified in relation to final outcome.	
2.2	•	tion ensures that the initial sample is tested for pollutants and tal performance.	
2.3		tion ensures that sales are estimated in terms of volume, and ioning is defined in terms of zero waste principles.	
2.4		tion ensures that potential suppliers are assessed in terms of ironmental management criteria consistent with zero waste	
2.5		tion ensures that process development requirements are met in duction capacity and timing.	
2.6	Implementation ensures that product packaging requirements are met in term of sustainability.		
	Range	packaging – design, production, transportation.	
2.7		tion ensures that the pricing analysis considers inputs, process, and n terms of potential financial returns.	
2.8	Safety clear	ances are confirmed in accordance with legislation.	
	Range	safety – inputs, process, packaging, transport.	
2.9		s selected that meets time, cost, and process efficiency s in accordance with the project brief.	
	Range	selection may include but is not limited to – purchase, lease, adapt.	
2.10	•	tion ensures that consumer test results met success criteria in with the project brief.	
2.11	Review of proj	roject confirms sustainability criteria have been met in accordance ect brief.	

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

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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

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

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