

Field Service Sector

Registration of skill standards and review of *Resource Recovery* and *Zero Waste* unit standards

Subfield	Domain	ID
Resource Recovery	Recycling and Recovery	22675, 24241-24252
	Resource Recovery Operations	22608, 22609, 22611-22615, 22618, 22621, 22623-22628, 22679, 22967, 24254, 24255, 24260, 27075, 28746
	Resource Recovery Theory	22635
Zero Waste	Resource Efficiency	27012

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has completed the review of 37 unit standards listed above and registration of 16 skill standards.

Date new versions published

April 2025

Planned review date

December 2029

Summary

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council undertook a combined review of the Resource Recovery qualifications below and associated unit standards:

- New Zealand Certificate in Resource Recovery (Level 2) [Ref: 2743]
- New Zealand Certificate in Resource Recovery (Level 3) with strands in Composting, Recovery and Recycling, Scrap Metal Recycling, and Solid Waste (with optional strand in Hazardous Waste) [Ref: 2744]
- New Zealand Certificate in Resource Recovery (Level 4) with strands in Composting, Recovery and Recycling, Scrap Metal Recycling, and Solid Waste [Ref: 2745].

Online meetings were held throughout October 2023 – December 2024 with a wide range of stakeholders, including representatives from WasteMINZ, New Zealand Trade and Industrial Waters Forum, New Zealand Demolition and Asbestos Association, Building Research Association of New Zealand (BRANZ), Composite Association of New Zealand, district councils, Ministry for Environment, employers, training providers and subject matter experts.

Most unit standards were expired without replacement due to no usage for over five years. New skill standards were developed to reflect current industry practices and terminology. Skill standards were designed to be flexible so they can be applied across a range of different resource recovery contexts. The changes outlined below were made in consultation with industry stakeholders.

Main changes

- 31 unit standards were expired without replacement.
- Six unit standards were expired and replaced with five new skill standards.
- Replacement skill standards 40607 and 40610 credit value was decreased from 3 to 2 credits in response to feedback from industry stakeholders.
- Replacement skill standard 40618 was moved from *Resource Efficiency* to the *Recycling and Recovery domain* since waste audits are applicable to many recycling and recovery operations.
- 11 new skill standards were developed in *Resource Recovery Operations* and *Recycling and Recovery domains* to reflect current industry practices.

Category C and D unit standards will expire on 31 December 2025

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Service Sector > Resource Recovery > Recycling and Recovery

ID	Title	Level	Credit	Review Category
22675	Demonstrate knowledge of the concept of zero waste	2	2	D
24241	Demonstrate knowledge of glass recovery	2	2	D
24242	Identify and sort cullet for recycling	2	1	D
24243	Demonstrate knowledge of the reuse of glass containers	2	2	D
24244	Sort glass containers for recycling and reuse	2	4	D
24245	Wash glass containers for reuse using a bottle washing machine	2	5	D
24246	Identify and sort paper fibre for recycling and recovery	2	4	D
24247	Demonstrate knowledge of paper grades for recycling and recovery	4	8	D
24248	Identify and describe types of plastic for recycling	1	1	D
24249	Sort plastics for recycling at a resource recovery facility	2	1	D
24250	Demonstrate knowledge of contamination in plastics and remove contamination from plastics at a recovery facility	2	4	D
24251	Demonstrate knowledge of, and operate, a plastics shredder at a plastics recovery facility	2	8	D
24252	Demonstrate knowledge of, and operate, a plastics granulator at a plastics recovery facility	2	8	D
40615	Identify and sort materials for recycling or re-use	2	10	NEW
40616	Process materials in a resource recovery environment	2	10	NEW
40617	Sort materials and apply continuous improvement processes on a recycling sorting line	3	10	NEW
40619	Reduce waste in a resource recovery environment	3	15	NEW
40620	Evaluate and recommend options for processing materials or products in the resource recovery industry	4	10	NEW

Service Sector > Resource Recovery > Resource Recovery Operations

ID	Title	Level	Credit	Review Category
22608	Identify, sort, and store mixed items received at a resource recovery facility	3	6	D
22609	Identify and sort resources for recycling and recovery at a workplace	1	2	D

ID	Title	Level	Credit	Review Category
22611	Prepare a non-hazardous recoverable resource for transport	3	3	C
40607	Pack non-hazardous materials for transport in a resource recovery environment	3	2	
22612	Use industrial scales to weigh a bulk commodity in a resource recovery operation	2	2	D
22613	Stockpile bulk commodities for resource recovery using machinery	3	4	D
22614	Demonstrate knowledge of storage requirements for a non-hazardous recoverable resource	3	4	C
22627	Store non-hazardous commodities for resource recovery	3	4	C
40608	Store non-hazardous materials in a resource recovery environment	3	5	
22615	Load a transport container with a recyclable or recoverable resource	3	5	C
40609	Load a transport container for resource recovery	3	5	
22618	Produce information on separation at source for a resource recovery facility	3	3	C
40610	Communicate information about material separation in a resource recovery environment	3	2	
22621	Operate a sorting conveyor and sort items in a resource recovery operation	3	6	D
22623	Plan and manage the implementation of the promotion of a resource recovery facility	5	12	D
22624	Design the layout and components for a resource recovery facility	5	25	D
22625	Demonstrate knowledge of, and sort, construction and demolition materials for resource recovery	3	4	D
22626	Demonstrate knowledge of, and carry out, kerbside collecting for resource recovery	3	3	D
22628	Manage a drop-off area at a resource recovery facility	5	20	D
22679	Explain pre design issues and discuss the design of a resource recovery facility and its components	5	15	D
22967	Operate a mobile tyre shredder in a resource recovery operation	2	2	D
24254	Operate a bag stitching machine for resource recovery operations	2	2	D
24255	Operate a guillotine for resource recovery operations	2	8	D
24260	Operate a bandsaw for resource recovery operations	2	4	D
27075	Operate a baler in a resource recovery operation	3	3	D
28746	Demonstrate knowledge of requirements and monitor operations at a resource recovery facility	4	10	D
40605	Contribute to data collection in a resource recovery environment	3	5	NEW
40606	Operate machinery in a resource recovery environment	3	15	NEW
40611	Monitor environmental performance at a resource recovery site	4	10	NEW
40612	Report and analyse data in a resource recovery environment	4	5	NEW
40613	Coordinate and monitor operations in a resource recovery environment	4	20	NEW

ID	Title	Level	Credit	Review Category
40614	Develop a plan for a modification to a resource recovery facility	4	10	NEW

Service Sector > Resource Recovery > Resource Recovery Theory

ID	Title	Level	Credit	Review Category
22635	Explain the content of an environmental management plan for a resource recovery site	3	4	D

Service Sector > Zero Waste > Resource Efficiency

Service Sector > **Resource Recovery > Recycling and Recovery**

ID	Title	Level	Credit	Review Category
27012	Undertake a solid waste stream audit for a worksite	4	5	C
40618	Complete a waste audit at a resource recovery site	4	5	