

## National Certificate in Resource Recovery Operations (Level 3)

**Level** 3

**Credits** 106

### Purpose

This qualification recognises the skills and knowledge of people working at operations level in the resource recovery industry in commercial or community-based resource recovery facilities.

The compulsory section recognises skills and knowledge required to understand resource recovery principles and practices, to work safely in the resource recovery industry, and to identify, sort, and store recoverable resources.

The qualification structure acknowledges the diversity of resource recovery facilities and the nature of work they undertake. To reflect this, the qualification includes elective sections from which people can select skills and knowledge relevant to a specific workplace. Because people working in this industry come from a wide range of backgrounds the elective section enables them to select knowledge and skills that underpin other standards in the qualification.

This qualification may complement the National Certificate in Zero Waste and Resource Recovery (Principles for Implementation) (Level 3) [Ref: 1345] and may lead to the National Certificate in Resource Recovery Operations (Level 4) [Ref: 1348], the National Diploma in Resource Recovery (Level 5) with an optional strand in Cleaner Production [Ref: 1349], and the National Diploma in Zero Waste and Resource Recovery (Level 5) [Ref: 1346].

### Credit Range

	Compulsory	Elective		
		Set A	Set B	Set C
Level 1 credits	2	0-1	0-10	0-5
Level 2 credits	24	0-25	0-10	0-5
Level 3 credits	50	0-25	0-10	0-5
Level 4 or above credits	-	0-8	0-10	0-5
Minimum totals	76	15-25	0-10	5

## Requirements for Award of Qualification

### Award of NQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided in section 7 of the New Zealand Qualifications Authority (NZQA) *Rules and Procedures* publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

### Summary of Requirements

- Compulsory standards
- Elective – A minimum of 30 credits as specified

### Detailed Requirements

#### Compulsory

The following standards are required

Community and Social Services > Community and Workplace Fire and Emergency Management > Workplace Fire and Emergency Response

ID	Title	Level	Credit
16800	Take action to control small emergency situations in a workplace	3	4

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
17593	Apply safe work practices in the workplace	2	4
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4
19522	Undertake job safety analysis	2	4

Service Sector > Resource Recovery > Resource Recovery Operations

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

ID	Title	Level	Credit
22614	Demonstrate knowledge of storage requirements for a non-hazardous recoverable resource	3	4
22627	Store non-hazardous commodities for resource recovery	3	4

## Service Sector &gt; Resource Recovery &gt; Resource Recovery Theory

ID	Title	Level	Credit
22631	Demonstrate basic knowledge of classifications for recoverable resources and residual waste	2	5
22632	Outline recovery options for recoverable resources	2	9
22635	Explain the content of an environmental management plan for a resource recovery site	3	4
22637	Demonstrate knowledge of hygiene and health for working in a resource recovery or solid waste context	3	8
22638	Demonstrate knowledge of the New Zealand resource recovery industry	3	6
22642	Demonstrate knowledge of preparing non-hazardous recyclables for transport	3	5

## Service Sector &gt; Resource Recovery &gt; Zero Waste

ID	Title	Level	Credit
22675	Describe zero waste	2	2

## Service Sector &gt; Solid Waste &gt; Hazardous and Special Waste Management

ID	Title	Level	Credit
23334	Define and identify hazardous and special wastes and explain safe handling procedures	3	3
23335	Receive and contain hazardous waste at a specified site	3	2

**Elective**

A minimum of 30 credits

From the following sets

- Set A
- Set B
- Set C

**Set A**

A minimum of 15 credits

## Engineering and Technology &gt; Extractive Industries &gt; Surface Extraction

ID	Title	Level	Credit
8893	Carry out weighbridge operations for extractive industries	3	10

## Service Sector &gt; Resource Recovery &gt; Recycling and Recovery

ID	Title	Level	Credit
24241	Demonstrate knowledge of glass recovery	2	2
24242	Identify and sort cullet for recycling	2	1
24243	Demonstrate knowledge of the reuse of glass containers	2	2
24244	Sort glass containers for recycling and reuse	2	4
24245	Wash glass containers for reuse using a bottle washing machine	2	5
24246	Identify and sort paper fibre for recycling and recovery	2	4
24248	Identify and describe types of plastic for recycling	1	1
24249	Sort plastics for recycling at a resource recovery facility	2	1
24250	Demonstrate knowledge of contamination in plastics and remove contamination from plastics at a recovery facility	2	4
24251	Demonstrate knowledge of, and operate, a plastics shredder at a plastics recovery facility	2	8
24252	Demonstrate knowledge of, and operate, a plastics granulator at a plastics recovery facility	2	8

## Service Sector &gt; Resource Recovery &gt; Resource Recovery - Construction and Demolition

ID	Title	Level	Credit
23324	Identify construction and demolition waste materials and sort them for reuse, recycling, and disposal	2	4
23325	Demonstrate introductory knowledge of constraints on construction and demolition waste	2	5
23326	Demonstrate knowledge of the recovery of resources from construction and demolition waste	3	6
23327	Describe health, safety, and environmental requirements relating to construction and demolition waste	3	6
23328	Dismantle recoverable construction and demolition materials and prepare for storage and transport	3	12

## Service Sector &gt; Resource Recovery &gt; Resource Recovery Operations

ID	Title	Level	Credit
22611	Prepare a non-hazardous recoverable resource for transport	3	3
22612	Use industrial scales to weigh a bulk commodity in a resource recovery operation	2	2
22613	Stockpile bulk commodities for resource recovery using machinery	3	4
22615	Load a transport container with a recyclable or recoverable resource	3	5
22618	Produce information on separation at source for a resource recovery facility	3	3
22619	Operate a nonexport baler in a resource recovery operation	2	2
22620	Operate an export mill baler in a resource recovery operation	3	5
22621	Operate a sorting conveyor and sort items in a resource recovery operation	3	6
22622	Demonstrate knowledge of, and supervise, a resource recovery sorting process	4	8
22625	Demonstrate knowledge of, and sort, construction and demolition materials for resource recovery	3	4
22626	Demonstrate knowledge of, and carry out, kerbside collecting for resource recovery	3	3
22966	Communicate information on separation at source for a resource recovery facility	3	2
22967	Operate a mobile tyre shredder in a resource recovery operation	2	2
24254	Operate a bag stitching machine for resource recovery operations	2	2
24255	Operate a guillotine for resource recovery operations	2	8
24260	Operate a bandsaw for resource recovery operations	2	4

## Service Sector &gt; Resource Recovery &gt; Resource Recovery Theory

ID	Title	Level	Credit
22634	Explain principles of organic resource recovery and recycling	3	5
22636	Relate the principles of environmental sustainability to resource recovery	3	6
22641	Demonstrate knowledge of the recycling of inorganic resources	3	9

Service Sector > Resource Recovery > Reusable Goods

ID	Title	Level	Credit
24256	Demonstrate knowledge of the value of, and negotiate prices for, reusable goods	3	5
24257	Demonstrate knowledge of legislation relating to the trade of reusable goods	3	10
24258	Demonstrate basic knowledge of, and source reusable goods at, waste exchanges	3	4
24259	Describe, assess, accept, and sort reusable goods for resource recovery	3	3

Service Sector > Resource Recovery > Scrap Metal Recycling

ID	Title	Level	Credit
22649	Identify and separate ferrous metals for scrap metal recycling	2	5
22650	Identify and separate nonferrous metals received for processing at a scrap metal yard	2	12

Service Sector > Resource Recovery > Zero Waste

ID	Title	Level	Credit
22677	Discuss key concepts of zero waste theory and practice	3	10
22681	Demonstrate knowledge of Māori and another culture's perspectives of waste	3	5

Service Sector > Solid Waste > Hazardous and Special Waste Management

ID	Title	Level	Credit
23337	Explain safe methods for containing and storing hazardous substances in the waste handling industry	3	5

**Set B**

A minimum of 5 credits  
From anywhere on the NQF

**Set C**

The balance of credits, if required, to achieve  
A minimum of 30 credits  
May come from the following

Engineering and Technology > Mechanical Engineering > Engineering Core Skills

ID	Title	Level	Credit
2395	Select, use and care for, engineering hand tools	2	4
2396	Select, use and maintain portable hand held engineering power tools	2	4

Service Sector > Commercial Road Transport > Commercial Road Transport Skills

ID	Title	Level	Credit
1739	Load, convey by road transport, and unload dangerous goods	3	5
15158	Carry out pre-drive vehicle checks on a heavy motor vehicle, start it up, and shut it down	2	4
24089	Demonstrate knowledge of fatigue management, work time, and driver logbook requirements	3	5

Service Sector > Commercial Road Transport > Goods Service

ID	Title	Level	Credit
1753	Load and unload a goods service vehicle	2	4

Service Sector > Cranes > Crane Operation

ID	Title	Level	Credit
3800	Operate a pendant controlled overhead crane and lift and place regular loads	2	10

Service Sector > Driving > Driver Licence Endorsements

ID	Title	Level	Credit
16701	Demonstrate knowledge and skills for driving on a road for endorsement W (wheels)	3	3
16703	Demonstrate knowledge and skills for driving on a road for endorsement T (tracks)	3	3

Service Sector > Lifting Equipment > Powered Industrial Lift Trucks

ID	Title	Level	Credit
10851	Operate a powered industrial lift truck fitted with forks (forklift)	3	7

Service Sector > Retail, Distribution, and Sales > Sales Transactions

ID	Title	Level	Credit
12008	Sell goods and/or services in a retail or distribution environment	2	6

Field	Subfield	Domain
Core Generic	Core Generic	Self-Management
Health	Occupational Health and Safety	Occupational Health and Safety Practice
Humanities	Communication Skills	Interpersonal Communications
		Introductory Communication Skills
Service Sector	Service Sector Skills	Service Sector - Core Skills

## Transition Arrangements

### Version 2

Version 2 was issued in order to make changes to content.

Changes to structure and content

- standards 23324, 23327-23328, 24241-24246, 24248-24252, and 24254-24260 added to Elective Set A
- credit range updated
- prerequisite for standard 22967 corrected in prerequisite diagram and diagram updated.

For detailed information see [Review Summaries](#) on the NZQA website.

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer existing credits to version 2.

New trainees will be enrolled in programmes leading to the new version of the qualification.

It is not intended that anyone is disadvantaged by this review, and the above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to the NZ Extractive Industries Training Organisation.

### NQF Registration Information

Process	Version	Date	Last Date for Award
Registration	1	December 2007	December 2012
Revision	2	August 2008	N/A

### Standard Setting Body

NZ Extractive Industries Training Organisation  
PO Box 2623  
CHRISTCHURCH

Telephone 03 964 4710  
Email [info@exito.org.nz](mailto:info@exito.org.nz)

### Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2012
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## Other standard setting bodies whose standards are included in the qualification

Competenz  
 Fire and Rescue Services Industry Training Organisation  
 New Zealand Industry Training Organisation  
 Opportunity - The Training Organisation  
 Retail ITO  
 Tranzqual ITO

## Certification

The certificate will display the logos of NZQA, the NZ Extractive Industries Training Organisation and the accredited organisation.

## Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
1981	Service Sector > Resource Recovery > Resource Recovery Operations	030399	Engineering and Related Technologies > Process and Resources Engineering > Process and Resources Engineering not elsewhere classified

### Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

# Prerequisite Diagram

