

National Diploma in Resource Recovery (Level 5) with an optional strand in Cleaner Production

Level	5
Credits	141

Purpose

This qualification recognises the skills and knowledge of people working at management level in the resource recovery industry. It is aimed primarily at people employed to manage commercial or community-based resource recovery facilities such as resource recovery parks, transfer stations, and drop-off centres, but may also be useful on other sectors of the industry.

The compulsory section recognises the skills and knowledge required to understand policies and legislation affecting the industry, resource recovery programmes, factors that drive resource recovery, market requirements, and research into best practice for the industry.

The qualification structure recognises 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 complement other standards in the qualification.

The optional strand recognises specialist skills in the principles of cleaner production.

This qualification builds on the National Certificate in Resource Recovery Operations (Level 4) [Ref: 1348] and the National Certificate in Zero Waste and Resource Recovery (Principles for Implementation) (Level 3) [Ref: 1345], and may lead to the National Diploma in Zero Waste and Resource Recovery (Level 5) [Ref: 1346].

Special Notes

It is recommended that people entering programmes leading to the award of this qualification possess the skills and knowledge of supervisors in the resource recovery or zero waste industries. Evidence of that ability might be demonstrated by achievement of the National Certificate in Resource Recovery Operations (Level 4) [Ref: 1348] or the National Certificate in Zero Waste and Resource Recovery (Principles for Implementation) (Level 3) [Ref: 1345].

Credit Range

	Compulsory	Elective A	Elective B
Level 3 credits	-	-	0-10
Level 4 credits	6	-	0-10
Level 5 or above credits	85	30	0-10
Minimum totals	91	30	10

	Elective C	Cleaner Production Optional Strand
Level 3 credits	0-10	-
Level 4 credits	0-10	-
Level 5 or above credits	0-10	35
Minimum totals	10	35

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 – A minimum of 30 credits as specified
- Elective B – A minimum of 10 credits as specified
- Elective C – A minimum of 10 credits as specified

The following strand is optional

- Cleaner Production Optional Strand

Detailed Requirements

Compulsory

The following standards are required

Service Sector > Resource Recovery > Resource Recovery Theory

ID	Title	Level	Credit
22640	Demonstrate knowledge of legislation, policies, and programmes relating to resource recovery	5	25

ID	Title	Level	Credit
22643	Explain market requirements for a recoverable resource	4	6
22645	Research and discuss best practice for resource recovery and recycling	5	35
22646	Demonstrate knowledge of responsibilities, strategic drivers, and opportunities for resource recovery	5	25

Elective A

A minimum of 30 credits

Service Sector > Resource Recovery > Resource Recovery - Construction and Demolition

ID	Title	Level	Credit
23329	Select and manage equipment for recovering resources from construction and demolition waste	5	30
23331	Plan, manage, and monitor the minimisation and recovery of construction or demolition waste	5	30
23332	Prepare tenders for contracts relating to construction and demolition waste	5	10
23333	Develop contracts for construction and demolition waste	5	15

Service Sector > Resource Recovery > Resource Recovery Operations

ID	Title	Level	Credit
22623	Plan and manage the implementation of the promotion of a resource recovery facility	5	12
22624	Design the layout and components for a resource recovery facility	5	25
22628	Manage a drop-off area at a resource recovery facility	5	20
22679	Explain pre design issues and discuss the design of a resource recovery facility and its components	5	15

Service Sector > Resource Recovery > Resource Recovery Theory

ID	Title	Level	Credit
22639	Evaluate options and issues for managing recoverable resources	5	25
22644	Demonstrate knowledge of, and apply, the Solid Waste Analysis Protocol	5	15
22647	Research overseas resource recovery legislation, policy, and agreements and evaluate relevance to NZ	5	20

Elective B

A minimum of 10 credits at Level 3 or above

Service Sector > Resource Recovery > Resource Recovery Operations

ID	Title	Level	Credit
22614	Demonstrate knowledge of storage requirements for a non-hazardous recoverable resource	3	4
22625	Demonstrate knowledge of, and sort, construction and demolition materials for resource recovery	3	4

Field	Subfield	Domain
Business	Business Operations and Development	Any
Education	Generic Education and Training	Assessment of Learning
Health	Occupational Health and Safety	Occupational Health and Safety Practice
Humanities	Communication Skills	Interpersonal Communications
Service Sector	Service Sector Skills	Service Sector - Core Skills

Elective C

A minimum of 10 credits at Level 3 or above

From anywhere on the NQF

Cleaner Production Optional Strand

The following standards are required

Service Sector > Resource Recovery > Zero Waste

ID	Title	Level	Credit
22682	Explain sustainability, resource efficiency, and cleaner production in relation to zero waste	5	15
22683	Demonstrate knowledge of resource efficiency and cleaner production initiatives	5	20

NQF Registration Information

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

Transition Arrangements

Version 2

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

Changes to structure and content

- standards 23329, and 23331-23333 added to Elective A.

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.

Standard Setting Body

NZ Extractive Industries Training Organisation
PO Box 2623
CHRISTCHURCH

Telephone 03 964 4710
Email 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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Certification

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

Classification

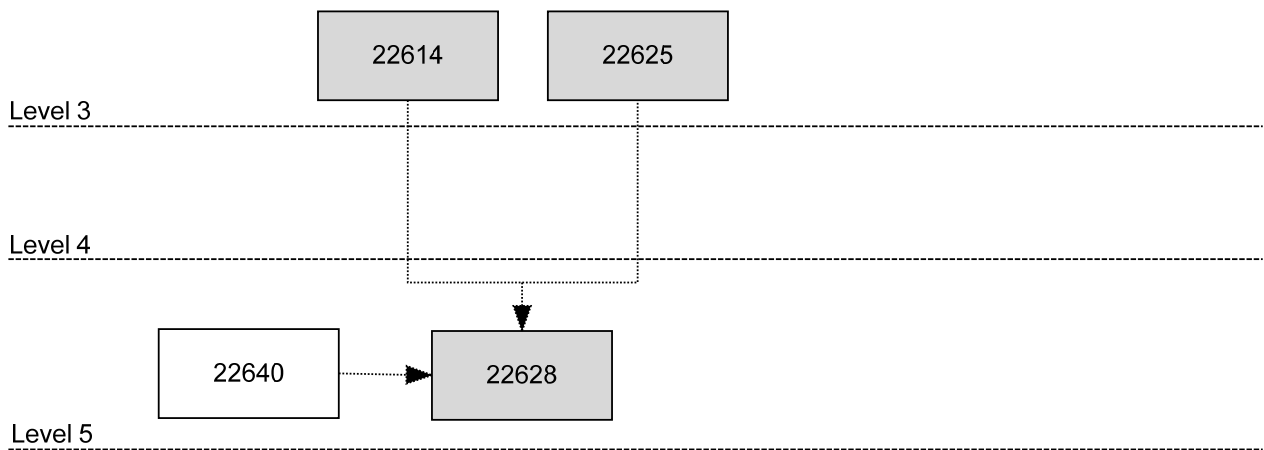
This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
424	Service Sector > Resource Recovery	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



Key

-  Recommended
-  Elective in qualification