

**Field      Service Sector****Review of *Solid Waste* and *Resource Recovery* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Solid Waste	Hazardous and Special Waste Management	23334-23337, 23340, 23343, 23344
	Solid Waste Disposal	23567, 23568, 23573, 23578, 23580, 23581
	Solid Waste Handling	22630, 23564, 23566,
Resource Recovery	Composting	23298-23302, 23304, 23308, 23314, 23317, 23318, 23323
	Recycling and Recovery	24253
	Resource Recovery Operations	22608, 22617, 22622, 22966
	Resource Recovery Theory	22631, 22632, 22634-22638, 22643
	Scrap Metal Recycling	22648-22650, 22656, 22658, 22671, 22673
	Zero Waste	22675

The NZ Motor Industry Training Organisation (Inc) (MITO) has completed the review of the standards listed above.

**Date new versions published**

**16 April 2015**

**Planned review date**

**31 December 2019**

### **Summary**

As part of the development of new qualifications for the resource recovery industry, MITO's Resource Recovery Governance and Working Group reviewed the standards listed above.

The review of these standards resulted in updated outcomes and evidence requirements that reflect current industry practice. The review also re-aligned the levels to ensure they reflect the NZQF level descriptors, and to ensure they will accord rationally with the Graduate Profile Outcomes in the New Zealand qualifications.

The Governance and Working Group has endorsed the changes made to the standards, and the expiry of standards 22637 and 24253.

### **Main changes**

- Standard 22655 was moved from the *Scrap Metal Recycling* domain to the *Resource Recovery Operations* domain.
- The levels for standards 22632 and 23581 were changed to better align with the NZQF level descriptors.

- The titles of standards 22648, 22655, 22656, 23317, and 23564 were changed to reflect changes made to their content.
- Standard 24253 was designated expiring as it is no longer fit-for-purpose within the New Zealand resource recovery environment.
- Standard 22637 was designated expiring and replaced by standard 28744.
- Five new standards were developed.
- Explanatory note references and hyperlinks were updated for currency.
- Purpose statements, explanatory notes, outcomes, evidence requirements, and range statements were updated to ensure they are fit for purpose and to ensure clarity for users.

The last date for assessment of superseded versions of these standards is 31 December 2017. Results will not be accepted where the assessment date is after the last date for assessment of the superseded version of the standard.

### Category C and D unit standards will expire at the end of December 2017

#### Impact on existing consents to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Domain	Scrap Metal Recycling	2+	Standard	22655	2

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

All changes are in **bold**.

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

#### Service Sector > Solid Waste > Hazardous and Special Waste Management

ID	Title	Level	Credit	Review Category
23334	Define and identify hazardous and special wastes and explain safe handling procedures	3	3 <b>5</b>	B
23335	Receive and contain hazardous waste at a specified site	3	2	B
23336	Demonstrate general knowledge of clinical waste management	3	2	B
23337	Explain safe methods for containing and storing hazardous substances in the waste handling industry	3	5	B
23340	Describe a type of special hazardous waste and explain safe methods for its collection and storage	2	3	B
23343	Demonstrate knowledge of legislation relating to the management of hazardous waste	4	15	B

ID	Title	Level	Credit	Review Category
23344	Demonstrate safe methods for handling and storing waste at a hazardous waste facility	4	10	B

## Service Sector &gt; Solid Waste &gt; Solid Waste Disposal

ID	Title	Level	Credit	Review Category
23567	Demonstrate knowledge of disposal methods for solid waste	2	2	B
23568	Demonstrate basic knowledge of landfill operations	2	2	B
23573	Describe odour control and control odour at a landfill	2	5	B
23578	Determine and respond to controlled waste in loads entering a solid waste facility	3	6	B
23580	Control a landfill tip head	4	10	B
23581	Identify, isolate, and process controlled waste at a solid waste facility	3 4	15	B

## Service Sector &gt; Solid Waste &gt; Solid Waste Handling

ID	Title	Level	Credit	Review Category
22630	Organise and supervise the routine removal of waste and/or recyclables from the kerbside	4	15	B
23564	Demonstrate knowledge of health, safety, and environmental controls for handling solid waste <b>Demonstrate knowledge of health and safety controls for handling solid waste</b>	3	2	B
23566	Manage the clean-up of illegally dumped waste	4	5 2	B

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

ID	Title	Level	Credit	Review Category
23298	Identify, describe, and observe health and safety practices at a composting facility	3	4	B
23299	Locate and demonstrate knowledge of raw materials, plant, and equipment at a composting facility	2	3	B
23300	Prepare for and conduct sampling for on-site testing and commercial laboratory analysis for a composting facility	3	3	B
23301	Set up and operate water delivery systems at a composting facility	3	3	B
23302	Dispatch compost products and complete documentation at a composting facility	3	6	B
23304	Receive raw materials from customers, and assess, sort, and stockpile for composting	2	8	B
23308	Prepare, maintain, and monitor composting windrows at a composting facility	3	10	B

ID	Title	Level	Credit	Review Category
23314	Prepare value-added products at a composting facility	3	10	B
23317	Amend and prepare biosolids and sludges for treatment and use in composting <b>Amend and prepare putrescible wastes for treatment and use in composting</b>	3	6	B
23318	Describe the properties and applications of compost products, and production issues at a composting facility	4	5	B
23323	Operate and carry out basic maintenance on a front end loader at a composting facility	3	15	B

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

ID	Title	Level	Credit	Review Category
24253	Demonstrate knowledge of requirements, and monitor operations, at a plastics recovery facility	4	15	D

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

ID	Title	Level	Credit	Review Category
22608	Identify, sort, and store mixed items received at a resource recovery facility	3	6	B
22617	Supervise customer service and operations in a drop-off area at a resource recovery facility	4	10	B
22622	Demonstrate knowledge of, and supervise, a resource recovery sorting process	4	8	B
22966	Communicate information on separation at source for a resource recovery facility	3	2	B
<b>28743</b>	<b>Receive and sort recoverable resources and residual waste</b>	<b>2</b>	<b>5</b>	<b>New</b>
<b>28746</b>	<b>Demonstrate knowledge of requirements, and monitor operations at a resource recovery facility</b>	<b>4</b>	<b>10</b>	<b>New</b>
<b>28747</b>	<b>Demonstrate and apply knowledge of maintenance and production schedules at a resource recovery facility</b>	<b>4</b>	<b>4</b>	<b>New</b>

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

ID	Title	Level	Credit	Review Category
22631	Demonstrate basic knowledge of classifications for recoverable resources and residual waste	2	5 <b>3</b>	B
22632	Outline recovery options for recoverable resources	2 <b>4</b>	9	B
22634	Demonstrate knowledge of recovering and recycling organic resources	3	5	A
22635	Explain the content of an environmental management plan for a resource recovery site	3	4	B

ID	Title	Level	Credit	Review Category
22636	Explain concepts relating to sustainability, resource use, recycling, and the environment	3	8	B
22637	Demonstrate knowledge of hygiene and health for working in a resource recovery or solid waste context	3	8	C
<b>28744</b>	<b>Demonstrate knowledge of factors that affect workers' performance in the resource recovery and residual waste industry</b>	<b>2</b>	<b>8</b>	
22638	Demonstrate knowledge of the New Zealand resource recovery industry	3	6	B
22643	Explain market requirements for a recoverable resource	4	6	B
<b>28745</b>	<b>Demonstrate knowledge of adverse effects on the environment from resource recovery and residual waste operations</b>	<b>3</b>	<b>5</b>	<b>New</b>

## Service Sector &gt; Resource Recovery &gt; Scrap Metal Recycling

ID	Title	Level	Credit	Review Category
22648	Demonstrate knowledge of health, safety, and environmental protection for scrap metal recycling	4	15	B
	<b>Demonstrate knowledge of health, safety, and hazard awareness for scrap metal recycling</b>	<b>3</b>	<b>5</b>	
22649	Identify and separate ferrous metals for scrap metal recycling	2	5 <b>3</b>	B
22650	Identify and separate nonferrous metals received for processing at a scrap metal yard	2	12 <b>8</b>	B
22656	Weigh metals at a scrap metal yard	2	5 <b>4</b>	B
	<b>Grade ferrous metals for purchase at a scrap metal yard</b>			
22658	Uplift and discharge scrap metal	4	10 <b>6</b>	B
22671	Demonstrate knowledge of the Secondhand Dealers and Pawnbrokers Act 2004 for scrap metal recycling	3	6	B
22673	Develop a layout plan for a scrap metal yard	5	15	B
<b>28748</b>	<b>Receive, grade, and weigh nonferrous metals for purchase at a scrap metal yard</b>	<b>3</b>	<b>8</b>	<b>New</b>

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

ID	Title	Level	Credit	Review Category
22675	Describe zero waste	2	2	B

## Service Sector &gt; Resource Recovery

<b>ID</b>	<b>Domain</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
22655	Scrap Metal Recycling <b>Resource Recovery Operations</b>	Respond to a spill incident at a scrap metal yard <b>Respond to a spill or emission incident at a resource recovery facility</b>	2	4	B