

Field Service Sector**Revision and Rollover of *Resource Recovery* unit standards**

| Subfield | Domain | ID |
|-------------------|---|--|
| Resource Recovery | Composting | 23290-23297, 23305-23307, 23309-23311, 23313, 23315, 23316, 23319, 23652 |
| | Recycling and Recovery | 24241-24252 |
| | Resource Recovery - Construction and Demolition | 23324-23333 |
| | Resource Recovery Theory | 22633, 22639-22642, 22644-22647 |
| | Reusable Goods | 24256-24259 |

MITO New Zealand Incorporated has completed the revision and rollover of the unit standards listed above.

Date new versions published

March 2019

Planned review date

December 2023

Summary

The purpose of this revision and rollover is to keep the unit standards current and fit for purpose. No issues with assessment have been identified since the last review.

Main changes

- Guidance information, purpose statements, entry information, outcomes, performance criteria and range statements were updated to ensure currency.
- The planned review date was extended to December 2023 to follow the Resource Recovery qualification suite reviews.
- The unit standards were moved from CMR 0114 to CMR 0014 so that all MITO unit standards are on one CMR.

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

All changes are in **bold**.

Service Sector > Resource Recovery > Composting

| ID | Title | Level | Credit |
|-----------|---|--------------|---------------|
| 23290 | Identify organic materials suitable for bio-energy feedstock | 2 | 1 |
| 23291 | Describe composting worms and the environment required for vermicomposting for resource recovery Demonstrate knowledge of composting worms and the environment required for vermicomposting for resource recovery | 2 | 3 |
| 23292 | Describe and evaluate homemade and commercial vermicomposting units for domestic composting | 2 | 5 |
| 23293 | Describe the processes of sourcing, preparing, and adding feedstock for vermicomposting for resource recovery | 2 | 1 |
| 23294 | Establish vermicomposting units for resource recovery activity and maintain the environment and microbiology | 3 | 5 |
| 23295 | Explain and conduct the separation of vermicompost from worms, and package worms for transportation | 3 | 4 |

| ID | Title | Level | Credit |
|-------|---|-------|--------|
| 23296 | Explain the issues related to vermicomposting and their effects on the worms and the vermicomposting unit | 3 | 2 |
| 23297 | Develop a production plan, and manage and report on the operation of a commercial vermicomposting unit | 5 | 12 |
| 23305 | Operate, and carry out basic maintenance, on an organic shredder at a composting facility | 3 | 15 |
| 23306 | Operate a screening plant and carry out basic maintenance at a composting facility | 3 | 15 |
| 23307 | Describe and operate an in-vessel composting plant at a composting facility | 3 | 15 |
| 23309 | Operate compost turning equipment at a composting facility | 3 | 15 |
| 23310 | Prepare for bagging, operate, and shut down compost bagging plant at a composting facility | 3 | 15 |
| 23311 | Plan and schedule compost production for a composting facility | 5 | 20 |
| 23313 | Develop a composting recipe for a composting facility | 5 | 20 |
| 23315 | Review, implement, and monitor quality assurance and environment management for a composting facility | 5 | 20 |
| 23316 | Source, assess, and classify raw materials for composting | 4 | 10 |
| 23319 | Plan and develop a composting facility | 5 | 20 |
| 23652 | Prepare for and conduct on-site testing at a composting facility | 4 | 3 |

Service Sector > Resource Recovery > 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 |
| 24247 | Demonstrate knowledge of paper grades for recycling and recovery | 4 | 8 |
| 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 > Resource Recovery > 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 Demonstrate knowledge of 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 |

| ID | Title | Level | Credit |
|-------|---|-------|--------|
| 23329 | Select and manage equipment for recovering resources from construction and demolition waste | 5 | 30 |
| 23330 | Recommend minimisation and resource recovery strategies for construction and demolition waste | 4 | 10 |
| 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 Theory

| ID | Title | Level | Credit |
|-------|---|-------|--------|
| 22633 | Explain responsibilities for resource recovery | 3 | 2 |
| 22639 | Evaluate options and issues for managing recoverable resources | 5 | 25 |
| 22640 | Demonstrate knowledge of legislation, policies, and programmes relating to resource recovery | 5 | 25 |
| 22641 | Demonstrate knowledge of the recycling of inorganic resources | 3 | 9 |
| 22642 | Demonstrate knowledge of preparing non-hazardous recyclables for transport | 3 | 5 |
| 22644 | Demonstrate knowledge of, and apply, the Solid Waste Analysis Protocol | 5 | 15 |
| 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 |
| 22647 | Research overseas resource recovery legislation, policy, and agreements and evaluate relevance to NZ | 5 | 20 |

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 | 3 4 |
| 24259 | Describe, assess, accept, and sort reusable goods for resource recovery | 3 | 3 |