

Title	Select and manage equipment for recovering resources from construction and demolition waste		
Level	5	Credits	30

Purpose	<p>This unit standard is for people working in the resource recovery industry.</p> <p>People credited with this unit standard are able to: assess the costs of equipment for use in recovering resources from construction and demolition waste; select equipment for purchase or hire; determine maintenance requirements for purchased equipment; and manage the use and maintenance of equipment for recovering resources from construction and demolition waste.</p>
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Classification	Resource Recovery > Resource Recovery - Construction and Demolition
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Available grade	Achieved
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Guidance Information

- 1 References relevant to this unit standard include:
Health and Safety at Work (HSW) Act 2015;
REBRI (Resource Efficiency in the Building and Related Industries) guidelines for reducing building material wastes, available at <http://www.branz.co.nz/REBRI>;
equipment manufacturer's instructions.
- 2 This unit standard requires assessment against three types of small equipment such as scales, personal protective equipment, hand tools, and power tools; and one item of mobile and/or heavy equipment such as front end loader, crane, sorting belt, crusher, or wire stripper. Office equipment is excluded.
- 3 **Definition**
Company procedures mean the documented methods for performing work activities and include health and safety, environmental, and quality management.

Outcomes and performance criteria

Outcome 1

Assess the costs of equipment for use in recovering resources from construction and demolition waste.

Performance criteria

- 1.1 Assessment identifies nature of intended work and working conditions in accordance with company procedures.
- Range nature of work– sorting, loading, transporting; conditions – safety, indoors, outside.
- 1.2 Equipment is assessed in relation to operating costs in accordance with company procedures.
- Range operating costs may include but are not limited to – length of time equipment will be used, workload, capacity, load requirements, logistics, age, mechanical condition of equipment.
- 1.3 Assessment analyses capacity of equipment to handle anticipated materials in accordance with end-product specifications.
- Range materials – type, location, anticipated volume.
- 1.4 Assessment of mobile equipment costs determines short term and long term costs in accordance with company requirements.
- Range costs – purchase or hire, registration, road user charges (where relevant), operating costs; operating costs include but are not limited to – fuel consumption, tyres, repairs and maintenance, daily operation, hourly operation.
- 1.5 Assessment identifies the purchase costs and hire costs of the equipment in accordance with company procedures.
- Range purchase costs include but are not limited to – depreciation, insurance, finance.
- 1.6 Assessment determines storage cost of equipment ownership.

Outcome 2

Select equipment for purchase or hire.

Performance criteria

- 2.1 The selection process compares costs of equipment in accordance with company procedures.
- Range may include but is not limited to – price, terms of sale, trade-in.
- 2.2 The selection process compares equipment supplier details in accordance with company requirements.
- Range may include but is not limited to – level of service, warranty, after sales service, track record.

- 2.3 Purchase or hire agreement and delivery details are determined for selected equipment in accordance with company requirements.

Range conditions agreed to between parties;
may include but is not limited to – terms of hire, level of service, warranty.

Outcome 3

Determine maintenance requirements for purchased equipment.

Performance criteria

- 3.1 Equipment is inspected for the purpose of drawing up maintenance programmes in accordance with company procedures.
- 3.2 Servicing records, and equipment wear and tear reports, are checked for servicing intervals and maintenance requirements in accordance with company procedures.
- 3.3 Maintenance plans, including estimated costs, are drawn up in accordance with company procedures.

Range includes but is not limited to – availability of parts, automated lubrication, access to and ease of service, frequency of service periods, warranty conditions.

Outcome 4

Manage the use and maintenance of equipment for recovering resources from construction and demolition waste.

Performance criteria

- 4.1 Management ensures that personal protective equipment is used for operating and maintaining equipment in accordance with manufacturer's instructions.
- 4.2 Management ensures that operators are competent to operate the equipment in accordance with the HSW Act.

Range competence includes but is not limited to – induction, training, licence.

- 4.3 Management ensures that equipment use and maintenance are recorded and damage is reported in accordance with company procedures.

- 4.4 Management ensures that routine servicing of equipment is carried out in accordance with manufacturer's instructions and/or company procedures.

Range servicing may include but is not limited to – cleaning, lubrication, fuel, maintaining coolant levels, regular replacement of parts such as air filters.

- 4.5 Liaison with specialist service people is established in accordance with company procedures.

Range specialist services may include but are not limited to – calibration, electrical repair, hydraulic hoses, tyres, engine repair, cooling system; requirements for – instructions, supply, timing, location, and records; may include service contracts.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 October 2007	31 December 2025
Rollover and Revision	2	28 March 2019	31 December 2025
Review	3	24 April 2025	31 December 2025

Consent and Moderation Requirements (CMR) reference

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.