

Title	Operate a static baler for recycling scrap metal		
Level	3	Credits	4

Purpose	<p>This unit standard is for people working in the scrap metal recycling industry.</p> <p>People credited with this unit standard are able to: explain the functions, hazards, and uses of static balers; prepare to operate a static baler; and operate a static baler for processing scrap metals.</p>
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Classification	Resource Recovery > Scrap Metal Recycling
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Available grade	Achieved
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Guidance Information

- 1 All work practices must comply with:
Hazardous Substances and New Organisms Act 1996;
Health and Safety at Work Act 2015;
Resource Management Act 1991;
Operating manuals.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 3 Assessment against this unit standard excludes the baling of end-of-life vehicles and whiteware.
- 4 Definitions
Company procedures mean the documented methods for performing work activities and include health and safety, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.
Industry publications refer to published material in hard or electronic copy such as articles available at <http://www.recyclingtoday.com>.
Laminating refers to the sequential layering and compressing of material prior to banding.
Operating manuals refer to the plant operating manual and manuals written for specific components or items of plant and equipment that may be published by the manufacturer or the company.
Server island refers to the platform that slides a finished bale out ready for removal.
Static baler refers to a machine for compressing and cutting scrap metal, excluding end-of-life vehicles and white ware.

Outcomes and performance criteria

Outcome 1

Explain the functions, hazards, and uses of static balers.

Performance criteria

- 1.1 The mechanical functions of a baler are explained in accordance with operating manuals and/or company procedures.
- Range function includes but is not limited to – safety equipment, operator controls, feed box, hydraulic system, photo eye, lid lock, shears (where fitted), power pack, cylinder.
- 1.2 The hazards of baler operations are identified and their controls are explained in accordance with operating manuals and/or company procedures.
- 1.3 The explanation outlines the uses of static balers in scrap metal recycling in accordance with industry publications.

Outcome 2

Prepare to operate a static baler.

Performance criteria

- 2.1 Requirements for compacting and baling are confirmed in accordance with company procedures.
- Range includes but is not limited to – compression, recording; may include – strapping.
- 2.2 Baler prestart checks are demonstrated in accordance with operating manuals and/or company procedures.
- Range checks include but are not limited to – hydraulic oil, ram, safety cage, grease points.
- 2.3 Work area is checked for hazards in accordance with legislation and company procedures.
- 2.4 Baler is inspected for maintenance requirements, and minor adjustments are made in accordance with operating manuals.
- Range inspection includes explaining purpose of each maintenance check; maintenance may include but is not limited to – notifying person responsible for corrective action.

Outcome 3

Operate a static baler for processing scrap metals.

Range metals – one ferrous, two nonferrous.

Performance criteria

- 3.1 Health and safety hazards of baler operations are controlled and monitored in accordance with legislation and company procedures.
- 3.2 Hazardous substances and recyclable materials are removed and disposed of prior to baling in accordance with legislation, buyer requirements, and company procedures.
- Range examples of hazardous substances are – lubricants, refrigerants, lead, cadmium, chromium, sealed units;
examples of recyclable materials are – plastics, glass, coated wire, copper.
- 3.3 Scrap metals are placed in or fed into baler in accordance with operating manuals and company procedures.
- 3.4 Baler is operated and damage to baler is avoided in accordance with operating manuals.
- Range operation includes but is not limited to – startup, shutdown, charging, ejection;
may include – laminating, banding.
- 3.5 Communication with feeder ensures a consistent supply of scrap in accordance with company procedures.
- 3.6 Machine faults are reported and/or acted on in accordance with company procedures.
- Range faults may include but are not limited to – jamming, mechanical failure, electrical failure.
- 3.7 Commodity throughput is maintained in accordance with processing schedules.
- Range may include but is not limited to – avoiding delays at server island.
- 3.8 Bales produced meet buyer and company requirements.
- Range requirements – size, shape, compaction, contamination limit, grade.

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	26 January 2007	31 December 2025
Rollover and Revision	2	28 March 2019	31 December 2025
Review	3	27 March 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>.