

<b>Title</b>	<b>Bale end-of-life motor vehicles and whiteware for scrap metal recycling</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	<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 a baler; prepare for baling vehicles and whiteware; and use a baler for processing vehicles and whiteware.</p>
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<b>Classification</b>	Resource Recovery > Scrap Metal Recycling
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 22659, <i>Prepare end-of-life motor vehicles for scrap metal recycling</i> , or demonstrate equivalent knowledge and skills.
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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;  
*Official NZ Truck Loading Code*, LTSA (*Truck Loading Code*), available at bookshops or <http://www.macmillan.co.nz>.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 3 Definitions  
*Baler* for this unit standard refers to a machine for compressing scrap metal, such as end-of-life motor vehicles and whiteware, into bales without banding in readiness for further processing or export. The machine may be mobile or static.  
*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>.  
*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.

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## Outcomes and performance criteria

### Outcome 1

Explain the functions, hazards, and uses of a baler.

#### Performance criteria

- 1.1 The mechanical functions of a baler and its components are explained in accordance with operating manuals and/or company procedures.
- Range components include but are not limited to – safety equipment, operator controls, feed box, hydraulic system, photo eye, power pack, cylinder; components may include – shears.
- 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 balers in scrap metal recycling in accordance with industry publications.

### Outcome 2

Prepare for baling vehicles and whiteware.

#### Performance criteria

- 2.1 Work requirements are confirmed in accordance with company procedures.
- Range includes but is not limited to – compression, recording.
- 2.2 Prestart checks for baling operations are demonstrated in accordance with operating manuals and/or company procedures.
- Range checks include but are not limited to – cracks, hydraulic oil, ram, 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 safety equipment, electrical instrumentation, hydraulic instrumentation, hydraulic lines, grease points, wear plates; inspection includes explaining purpose of each maintenance check.

- 2.5 A check is made to ensure that hazardous substances and recyclable materials have been removed and disposed of prior to baling in accordance with legislation, buyer requirements, and company procedures.

Range includes but is not limited to – lubricants, refrigerants, lead, cadmium, chromium, sealed units.

### Outcome 3

Use a baler for processing vehicles and whiteware.

Range twenty-four bales; evidence is required of baling – end-of-life motor vehicles, whiteware.

### Performance criteria

- 3.1 Health and safety hazards of baler operations are controlled and monitored in accordance with legislation and company procedures.

- 3.2 Vehicles and whiteware are placed in baler in accordance with operating manuals and company procedures.

- 3.3 Baler is operated within design capacity and in accordance with operating manuals.

Range operation includes but is not limited to – startup, shutdown, charging.

- 3.4 A consistent supply of scrap is maintained in accordance with company procedures.

Range includes but is not limited to – communications with feeder.

- 3.5 Work method ensures that end product meets buyer requirements in accordance with company procedures.

Range requirements include but are not limited to – absence of restricted items, acceptable contamination level, density, size.

- 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.

- 3.8 Bales are prepared for transport in accordance with company procedures and the *Truck Loading Code*.

**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>.