

Title	Operate a static shear for scrap metal recycling		
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 shears; prepare to operate a static shear; and operate a static shear for recycling scrap metals at a scrap metal yard.</p>
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Classification	Resource Recovery > Scrap Metal Recycling
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Available grade	Achieved
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Prerequisites	Unit 17593, <i>Apply safe work practices in the workplace</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 All work practices must comply with the Hazardous Substances and New Organisms Act 1996, Health and Safety at Work Act 2015, Resource Management Act 1991, and equipment operating manuals.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 3 **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.

Static shear refers to equipment that cuts scrap metal by forcing it between two blades, one of which is stationary. It is usually operated manually from the floor of the workplace, and may use a hydraulic lifting system.

Industry publications refer to published material in hard or electronic copy such as articles available at <https://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.

Outcomes and performance criteria

Outcome 1

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

Performance criteria

- 1.1 The mechanical functions of a static shear and its components are explained in accordance with operating manuals and/or company procedures.
- Range components include but are not limited to – shear frame, cylinder, cutter head, cutting guide, feed box, power pack; may include – lockdown bar, safety guards.
- 1.2 The hazards of static shear operations are identified and their controls are explained in accordance with operating manuals and/or company procedures.
- Range power cord, cutting cycle.
- 1.3 The explanation outlines the uses of static shears in scrap metal recycling in accordance with industry publications.

Outcome 2

Prepare to operate a static shear.

Performance criteria

- 2.1 Work requirements are confirmed in accordance with company procedures.
- 2.2 Prestart checks for static shear operations are demonstrated in accordance with operating manuals and/or company procedures.
- Range includes but is not limited to – hydraulic oil, power cable.
- 2.3 Work area is checked for hazards in accordance with legislation and company procedures.
- 2.4 Static shear is set up in accordance with operating manuals and company procedures.
- 2.5 Machine settings allow process requirements to be met.

Outcome 3

Operate a static shear for recycling scrap metals at a scrap metal yard.

Range metals – hollow, plate, fabricated.

Performance criteria

- 3.1 Hazards are assessed and controlled in accordance with company procedures and legislative requirements.
- 3.2 Start up and shut down procedures are demonstrated in accordance with company procedures and operating manuals.
- 3.3 Static shear is used within specified operating parameters and avoiding damage to equipment in accordance with operating manuals and company procedures.
- 3.4 Scrap metals are received and fed into the static shear in accordance with operating manuals and company procedures.
- 3.5 Work method ensures that metals are cut, sorted, and contained in accordance with company procedures.
- Range cutting includes but is not limited to specified – size, shape; sorting includes but is not limited to – grading, contamination limit.
- 3.6 Processing throughput is maintained in accordance with company schedule.
- 3.7 Equipment maintenance is reported or acted on in accordance with company procedures.
- Range maintenance may include but is not limited to – minor adjustments to equipment, notifying person responsible for corrective action; action includes but is not limited to – cleaning, lubricating.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 January 2007	N/A
Rollover and Revision	2	28 March 2019	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.