

<b>Title</b>	<b>Operate mobile shears for scrap metal recycling</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>15</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 mobile shears; prepare to operate mobile shears; and operate mobile shears to process scrap at a scrap metal yard.</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 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:
  - Hazardous Substances and New Organisms Act 1996;
  - Health and at Work Act 2015;
  - Resource Management Act 1991;
  - Equipment 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 operation of the machine to which the mobile shears are attached.
- 4 Definitions
  - Mobile shears* refers to equipment that cuts metal by forcing it across a blade on two sides. It is usually operated from the cab of a mobile machine in a scrap yard such as a crane or excavator, or scrap handler.
  - 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 mobile shears.

#### Performance criteria

- 1.1 The mechanical functions of a shear and its components are explained in accordance with operating manuals and/or company procedures.
- Range components include but are not limited to – anvil, knife, blade, parrot beak, cylinder, hinge points, hose and fittings.
- 1.2 The hazards of shearing operations are identified and their controls are explained in accordance with operating manuals and/or company procedures.
- Range break out force, cutting capability, steel type, flying objects, sealed units.
- 1.3 The explanation outlines the uses of shears in scrap metal recycling in accordance with industry publications.

### Outcome 2

Prepare to operate mobile shears.

#### Performance criteria

- 2.1 Work requirements are confirmed in accordance with company procedures.
- 2.2 Prestart checks for shearing operations are demonstrated in accordance with operating manuals and/or company procedures.
- Range grease points, shimming tolerances, blade condition.
- 2.3 Shears are fitted and secured in accordance with operating manuals.
- 2.4 Work area is checked for hazards in accordance with legislation and company procedures.

### Outcome 3

Operate mobile shears to process scrap at a scrap metal yard.

Range scrap – structural metal, plate metal, machinery.

**Performance criteria**

- 3.1 Operation of machinery and equipment controls produces smooth movement of shears through all positions in accordance with operating manuals.
- 3.2 Shears are operated with adequate clearances in accordance with operating manuals and company procedures.
- Range clearances include but are not limited to – people, property, services, access, adjacent stockpiles, overhead obstructions.
- 3.3 Work method ensures that metals are selected, cut, sorted, and processed in accordance with company procedures.
- Range selection includes but is not limited to – extracting an item from within a stockpile; cutting includes but is not limited to specified – size, shape, steel type.
- 3.4 Processing throughput is maintained in accordance with company schedule.
- 3.5 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 – detaching the shears, inspecting hydraulic lines; may include – blade changing.

<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.