

Title	Operate mobile shears for scrap metal recycling		
Level	3	Credits	15

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 mobile shears; prepare to operate mobile shears; and operate mobile shears to process scrap 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:
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.

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.

Replacement information	This unit standard was replaced by skill standard 40594.
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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
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.