

<b>Title</b>	<b>Operate a grab at a scrap metal recycling yard</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</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 grabs; prepare to operate a grab; and operate a grab for handling scrap metal 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 Safety at Work Act 2015;  
Resource Management Act 1991;  
machine 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 grab is attached.
- 4 Definitions  
*Company procedure* means 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.  
*Grab* refers to equipment that picks up and carries scrap metal in large quantities in continuous, heavy-duty cycling. It is usually attached to a crane, excavator, or scrap handler.  
*Industry publications* refer to published material in hard or electronic copy such as articles available at <http://www.recyclingtoday.com>.

*Operating manuals* refers 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 grabs.

#### Performance criteria

- 1.1 The mechanical functions of a grab and its components are explained in accordance with operating manuals and/or company procedures.
- Range components include but are not limited to – rotator, jaws, tines, cylinder, pins, hinge points, hose and fittings, pressure; components may include – hanger.
- 1.2 The hazards of grab 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 grabs in scrap metal recycling in accordance with industry publications.
- Range grabs – orange peel, tulip, log, narrow tine.

### Outcome 2

Prepare to operate a grab.

#### Performance criteria

- 2.1 Work requirements are confirmed in accordance with company procedures.
- 2.2 Prestart checks for grab operations are demonstrated in accordance with operating manuals and/or company procedures.
- Range check includes but is not limited to – grease points, pins, locking nuts, hydraulic lines.
- 2.3 Grab is 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 a grab for handling scrap metal at a scrap metal yard.

**Performance criteria**

- 3.1 Operation of machinery and equipment controls produces smooth movement of grab through all positions in accordance with operating manuals.
- 3.2 Grab is 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, sorted, and placed in accordance with company procedures.
- Range selection includes but is not limited to – extracting an item from within a stockpile; sorting may include but is not limited to – grade, size, shape, compaction, contamination limit; placing includes but is not limited to – stockpiling, feeding a conveyor or hopper.
- 3.4 Communication is maintained with work crew during operations in accordance with company procedures.
- 3.5 Processing throughput is maintained in accordance with company's schedule.
- 3.6 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.

<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.