

Title	Sort material at a fragmentiser sorting station		
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 a fragmentiser; and prepare for, and carry out, sorting at a fragmentiser sorting station.</p>
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Classification	Resource Recovery > Scrap Metal Recycling
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Available grade	Achieved
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Prerequisites	Unit 22649, <i>Identify and separate ferrous metals for scrap metal recycling</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- All work practices must comply with:
Hazardous Substances and New Organisms Act 1996;
Health and Safety at Work Act 2015;
Resource Management Act 1991.
- Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 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.
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 a fragmentiser.

Performance criteria

- 1.1 A fragmentiser is described in terms of layout, components, and functions.
- Range includes but is not limited to – electrics, conveyors, head drum, tail drum, magnetic separation, eddy current separation.
- 1.2 The hazards of fragmentiser operation are identified and their controls are explained in accordance with operating manuals and/or company procedures.
- Range hazards include but are not limited to – hygiene; controls include but are not limited to – safety equipment, conveyor shutdown, lockout and/or tag out system, communication system.
- 1.3 Fragmentiser emergency procedures are described in accordance with company procedures.
- 1.4 Output materials and their uses and/or disposal are identified in accordance with company procedures.
- Range materials include but are not limited to – ferrous metals, nonferrous metals, flock.
- 1.5 The sorting operation is described and the importance of quality separation is explained in accordance with company procedures.
- Range separation – ferrous metals, nonferrous metals.

Outcome 2

Prepare for sorting at a fragmentiser sorting station.

Performance criteria

- 2.1 Prestart checks of conveyor system are demonstrated in accordance with operating manuals and/or company procedures.
- 2.2 Work area is checked for hazards in accordance with legislation and company procedures.
- 2.3 Conveyor is inspected for maintenance requirements, and minor adjustments are made in accordance with operating manuals.
- Range maintenance may include but is not limited to – notifying person responsible for corrective action.

Outcome 3

Carry out sorting at a fragmentiser sorting station.

Range sorting – ferrous metal, or nonferrous metal, or non-metal.

Performance criteria

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

Range includes but is not limited to – manual handling, dust, noise, vibration.

3.2 Conveyor system is operated in accordance with operating manuals.

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

3.3 Materials are sorted in accordance with operating manuals and company procedures.

Range one of – iron, copper, rubber, nonferrous metal, inert materials, mixed nonferrous metals, mixed non-metals.

3.4 Communications with control room are maintained in accordance with company procedures.

Range startup, operation, shutdown.

3.5 Material throughput is maintained in accordance with processing schedules.

3.6 Sorted materials are collected and removed for storage and/or disposal in accordance with company procedures.

3.7 Separation standards meet buyer and company requirements.

Range requirements – contamination limit, grade.

3.8 Conveyor 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.

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.