

Title	Demonstrate knowledge of, and operate, a plastics shredder at a plastics recovery facility		
Level	2	Credits	8

Purpose	<p>This unit standard is for people who are currently working in the plastics recovery industry.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of a plastics shredder; demonstrate the operation of a plastics shredder; clean and maintain a plastics shredder; shred waste plastics at a plastics recovery facility; and demonstrate a product changeover.</p>
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Classification	Resource Recovery > Recycling and Recovery
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Available grade	Achieved
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Guidance Information

- 1 All work practices must comply with: Health and Safety at Work Act 2015; shredder manufacturer's instructions, where available.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 3 Definition

Company procedures mean the documented methods for performing work activities and includes health and safety, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.

Plastics recovery facility refers to a facility where post-consumer plastics are processed for recycling and polymer recovery.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of a plastics shredder.

Performance criteria

- 1.1 The components of a shredder are identified and their functions are described in accordance with shredder manufacturer's instructions and company procedures.
- Range components include but are not limited to – shredding chamber, feed throat, drive system, control system.
- 1.2 The hazards associated with shredding plastics are identified and their controls described in accordance with shredder manufacturer's instructions and company procedures.
- 1.3 Shredder maintenance is described in accordance with shredder manufacturer's instructions and company procedures.
- Range includes but is not limited to – blade change, cleaning.

Outcome 2

Demonstrate the operation of a plastics shredder.

Performance criteria

- 2.1 Shredder startup and shutdown procedures are demonstrated in accordance with shredder manufacturer's instructions and company procedures.
- 2.2 Shredder is operated safely in accordance with shredder manufacturer's instructions and company procedures.
- 2.3 Emergency shutdown is demonstrated in accordance with shredder manufacturer's instructions and company procedures.

Outcome 3

Clean and maintain a plastics shredder.

Performance criteria

- 3.1 Cleaning the shredder is demonstrated in accordance with shredder manufacturer's instructions and company procedures.
- Range includes but is not limited to – cleaning the shredder and housekeeping of the shredder work area.
- 3.2 Shredder blades are changed in accordance with shredder manufacturer's instructions and company procedures.
- 3.3 Specialist servicing requirements are reported in accordance with company procedures.

Outcome 4

Shred waste plastics at a plastics recovery facility

Range evidence is required of shredding three types of plastic.

Performance criteria

- 4.1 Waste plastic is prepared in sufficient quantity for production in accordance with company procedures.
- 4.2 Shredded plastic meets requirements for further processing in accordance with company procedures.

Outcome 5

Demonstrate a product changeover.

Performance criteria

- 5.1 Product changeover requirements are confirmed in accordance with company procedures.
- 5.2 The previous process is shutdown in accordance with shredder manufacturer's instructions and company procedures.
- 5.3 Equipment and process lines are cleaned in accordance with company procedures.
- 5.4 Machinery is reset to meet client requirements for a new product and the process is restarted in accordance with company procedures.
- 5.5 The changeover is completed so that the contamination level of the new product lies within specified parameters in accordance with company procedures.
- 5.6 The changeover is documented in accordance with company procedures.

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	25 February 2008	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.