

Title	Demonstrate knowledge of, and operate, a plastics granulator 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 granulator; demonstrate the operation of a plastics granulator; clean and maintain a plastics granulator; granulate 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;
Resource Management Act 1991;
granulator manufacturer’s instructions, where available;
job instructions.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 3 Definitions
Company procedures mean the documented methods for performing work activities and include health and safety, environmental, and quality management.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of a plastics granulator.

Performance criteria

- 1.1 The components and function of a granulator are described in accordance with granulator manufacturer’s instructions and company procedures.

Range	components include but are not limited to – chamber, feed throat, drive system, control system.
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1.2 The hazards associated with granulating plastics are identified and their controls described in accordance with granulator manufacturer's instructions and company procedures.

1.3 Granulator maintenance is described in accordance with granulator manufacturer's instructions and company procedures.

Range includes but is not limited to – blade change, cleaning.

Outcome 2

Demonstrate the operation of a plastics granulator.

Performance criteria

2.1 Granulator startup and shutdown procedures are demonstrated in accordance with granulator manufacturer's instructions and company procedures.

2.2 Granulator is operated safely in accordance with granulator manufacturer's instructions and company procedures.

2.3 Emergency shutdown is demonstrated in accordance with granulator manufacturer's instructions and company procedures.

Outcome 3

Clean and maintain a plastics granulator.

Performance criteria

3.1 Cleaning the granulator is demonstrated in accordance with granulator manufacturer's instructions and company procedures.

Range includes but is not limited to – cleaning the granulator, and housekeeping of the granulator work area.

3.2 Granulator blades are changed in accordance with granulator manufacturer's instructions and company procedures.

3.3 Specialist servicing requirements are reported in accordance with company procedures.

Outcome 4

Granulate waste plastics at a plastics recovery facility.

Range evidence is required of granulating two types of plastic.

Performance criteria

- 4.1 Waste plastic is inspected for contamination and prepared for granulation in accordance with company procedures.
- Range contamination – metal, stones.
- 4.2 Waste plastic is prepared in sufficient quantity for production in accordance with company procedures.
- 4.3 The quality of the granulated plastic produced meets product specifications in accordance with job instructions.

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 granulator manufacturer's instructions and company procedures.
- 5.3 Equipment and process lines are cleaned in accordance with granulator manufacturer's instructions and 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.