

Title	Operate a sorting conveyor and sort items in a resource recovery operation		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to: demonstrate knowledge of sorting conveyor operations; prepare for sorting conveyor operations; operate a sorting conveyor in a resource recovery operation; and sort commodities on a conveyor system.
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Classification	Resource Recovery > Resource Recovery Operations
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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 the Health and Safety at Work Act 2015.
- 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 include health and safety, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of sorting conveyor operations.

Range evidence one operation is required.

Performance criteria

- 1.1 Conveyor-belt systems are described in terms of function and components.

Range components include but are not limited to – conveyor belt, drive equipment, control box, cut-out switch, containers, lifting equipment.

- 1.2 Sorting equipment is described in terms of type and components.
- 1.3 Hazards of conveyor-belt sorting operations are identified, and their controls are described in accordance with manufacturer's instructions and/or company procedures.
- Range hazards include but are not limited to – putrescible items, broken glass, sharp edges on cans.

Outcome 2

Prepare for sorting conveyor operations.

Performance criteria

- 2.1 Prestart checks of the conveyor are demonstrated in accordance with manufacturer's instructions and company procedures.
- Range checks include but are not limited to – belt joints, belt condition, safety devices, handrails, belt scrapers, conveyor drive equipment, belt tracking, troughing and return rollers, drive couplings, noise, vibration, lubrication.
- 2.2 Isolating switches and emergency stops are checked to determine their working order in accordance with manufacturer's instructions.
- 2.3 Prestart check of sorting equipment is demonstrated in accordance with company procedures.
- Range checks may include but are not limited to – receptacle type, receptacle condition, personal protective equipment.
- 2.4 Sorting requirements are confirmed in accordance with company procedures.
- Range four commodities.

Outcome 3

Operate a sorting conveyor in a resource recovery operation.

Performance criteria

- 3.1 Conveyor startup procedures are demonstrated in accordance with manufacturer's instructions and/or company procedures.
- 3.2 During operation, the conveyor is monitored to manufacturer's running standards.
- Range monitoring includes but is not limited to – process flow, tracking, build up, gear boxes, drive equipment, guides, chute wear, scrapers, roller lubrication, belt wear and damage.

3.3 Conveyor shutdown and operational maintenance are demonstrated in accordance with manufacturer's instructions and/or company procedures.

Range cleaning, lubrication, housekeeping, replacement of worn and damaged conveyor belts, safety guard maintenance.

3.4 Specialist maintenance requirements are reported in accordance with manufacturer's instructions and company procedures.

Outcome 4

Sort commodities on a conveyor system.

Range four commodities.

Performance criteria

4.1 Commodities are sorted into separate containers in accordance with job requirements and company procedures.

4.2 Full containers are removed, stored, and replaced in accordance with company procedures.

4.3 After sorting, the container contents meet customer standards for commodity contamination.

4.4 Non-recyclables are rejected in accordance with company procedures.

4.5 After sorting, and at end of work period, conveyor and sort area are cleaned 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	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.