

Title	Operate a bandsaw for resource recovery operations		
Level	2	Credits	4

Purpose	<p>This unit standard is for people who are currently working in the resource recovery industry processing waste materials.</p> <p>People credited with this standard are able to: demonstrate knowledge of a bandsaw; prepare to operate a bandsaw for breaking down a recoverable resource; demonstrate the operation of a bandsaw; use a bandsaw to break down a recoverable resource; and demonstrate maintenance of a bandsaw and work area.</p>
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Classification	Resource Recovery > Resource Recovery Operations
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Available grade	Achieved
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Guidance Information

- 1 All work practices must comply with the:
Health and Safety at Work Act 2015
bandsaw manufacturer's instructions, where available.
- 2 Standard operating speeds apply to the performance of this activity.
- 3 Personal protective equipment must be used throughout operations in accordance with company procedures.
- 4 Candidates for this unit standard are required to process waste materials such as textiles and plastic. This unit standard excludes using a bandsaw for joinery, which is covered in unit standard 17135, requiring candidates to make and use jigs and templates and manufacture joinery items.
- 5 Definitions
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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of a bandsaw.

Performance criteria

- 1.1 The potential hazards of bandsaws are identified and hazard controls are outlined in accordance with bandsaw manufacturer's instructions and company procedures.
- 1.2 The mechanical functions of a bandsaw are described in accordance with bandsaw manufacturer's instructions and company procedures.

Outcome 2

Prepare to operate a bandsaw for breaking down a recoverable resource.

Performance criteria

- 2.1 Job requirements are confirmed in accordance with company procedures.
- 2.2 Bandsaw prestart checks are demonstrated in accordance with bandsaw manufacturer's instructions and company procedures.
- Range includes but is not limited to – the bandsaw is stable, the bench top is level, the bench top is not lower than the surface onto which the cut product will be discharged.
- 2.3 A test run before use confirms that the bandsaw functions within normal operating parameters.

Outcome 3

Demonstrate the operation of a bandsaw.

Performance criteria

- 3.1 Bandsaw startup and shutdown procedures are demonstrated in accordance with bandsaw manufacturer's instructions and company procedures.
- 3.2 The bandsaw is operated safely in accordance with bandsaw manufacturer's instructions and company procedures.
- Range includes but is not limited to – holding technique, pushing technique.
- 3.3 The operator avoids risk of injury to self and others in accordance with bandsaw manufacturer's instructions and company procedures.
- Range operator maintains balance during bandsaw operations including but not limited to – reach, follow through, use of body weight.
- 3.4 The bandsaw is switched off when unattended in accordance with bandsaw manufacturer's instructions and company procedures.

- 3.5 Emergency shutdown is demonstrated in accordance with bandsaw manufacturer's instructions and company procedures.

Outcome 4

Use a bandsaw to break down a recoverable resource.

Performance criteria

- 4.1 Bandsaw cuts are made to a recoverable resource in accordance with company procedures.
- Range cuts are – clean, made without excessive force, made without over duplication.
- 4.2 Bench top and working surfaces are kept free of resource cuttings and sawdust in accordance with company procedures.
- 4.3 The resource is broken down to meet client requirements in accordance with company procedures.

Outcome 5

Demonstrate maintenance of a bandsaw and work area.

Performance criteria

- 5.1 Hazards of maintenance on the bandsaw are identified, assessed, and controlled in accordance with company procedures and legislation.
- 5.2 The bandsaw is disassembled and cleaned in accordance with company procedures, legislation, and bandsaw manufacturer's instructions.
- 5.3 The bandsaw is reassembled and tensioned in accordance with company procedures, legislation, and bandsaw manufacturer's instructions.
- Range reassembly includes but is not limited to – bench top height adjustment, blade guards, blade.
- 5.4 Any damaged, blunt, and unsafe blades are replaced in accordance with company procedures and bandsaw manufacturer's instructions.
- 5.5 Housekeeping of bandsaw area is demonstrated in accordance with company procedures.
- 5.6 Machine faults that can be seen, heard, or smelt are reported or acted on in accordance with company procedures.
- Range faults may include but are not limited to – machine jamming, process stopping, blockage, 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	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.