

Title	Operate a mobile tyre shredder in a resource recovery operation		
Level	2	Credits	2

Purpose	People credited with this unit standard are able to: demonstrate knowledge of a mobile tyre shredder; prepare to operate a mobile tyre shredder; demonstrate the operation and maintenance of a mobile tyre shredder; and shred tyres, contain outputs, and clear the site.
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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> , and class and endorsement of driver licence appropriate to vehicle used, or demonstrate equivalent knowledge and skills
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Guidance Information

- 1 All work practices must comply with:
Health and Safety at Work Act 2015;
Resource Management Act 1991;
Hazardous Substances and New Organisms Act 1996;
The New Zealand Waste Strategy: Reducing Harm, Improving Efficiency 2010
Ministry for the Environment, available at <http://www.mfe.govt.nz>;
machine manufacturer's instructions.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- 3 It is recommended that candidates have competence in driving in off-road situations.
- 4 Assessment against this unit standard excludes transport to and from the site.
- 5 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.
Mobile tyre shredder refers to equipment that is transported to the site of an accumulation of end-of-life tyres and is used for shredding them.
Site refers to the area temporarily used for shredding operations.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of a mobile tyre shredder.

Performance criteria

- 1.1 The potential hazards of operating mobile tyre shredders are identified, and hazard controls are outlined in accordance with manufacturer's instructions and company procedures.

Range includes but is not limited to – transport, setting up, operating.

- 1.2 The mechanical functions of a mobile tyre shredder are described in accordance with manufacturer's instructions and company procedures.

Range excludes functions of the transport vehicle.

Outcome 2

Prepare to operate a mobile tyre shredder.

Performance criteria

- 2.1 Job requirements are confirmed in accordance with company procedures.

Range includes but is not limited to – location, quantity, tyre sizes and types, shred size, tyre preparation, recording.

- 2.2 Shredder site is checked for hazards, and risks are assessed and controlled in relation to the site and equipment, in accordance with company procedures and site requirements.

Range hazards relating to site and equipment include but are not limited to – stockpiles, pests, noise, blades; control includes but is not limited to – access to work area.

- 2.3 Shredder is set up in accordance with manufacturer's instructions and company procedures.

Range setup includes but is not limited to – stable equipment, safe power supply, setup sequence.

- 2.4 Shredder prestart checks are demonstrated in accordance with manufacturer's instructions and company procedures and any servicing requirements are reported in accordance with company procedures.

- 2.5 Preparation identifies and rejects unsuitable material in accordance with client requirements, manufacturer's instructions, and company procedures.

Outcome 3

Demonstrate the operation and maintenance of a mobile tyre shredder.

Performance criteria

- 3.1 Machine startup and shutdown procedures are demonstrated in accordance with manufacturer's instructions and company procedures.
- 3.2 Shredder is operated safely in accordance with manufacturer's instructions and company procedures.
- 3.3 Emergency shutdown is demonstrated in accordance with manufacturer's instructions and company procedures.
- 3.4 Machine faults are reported or acted on in accordance with company procedures.
- Range maintenance may include but is not limited to – minor adjustments to machines, notifying person responsible for corrective action; machine faults refer to those that can be seen, heard, or smelt. examples are – jamming, stopping, blockage, mechanical failure, electrical failure.
- 3.5 Operator maintenance is demonstrated in accordance with company procedures and manufacturer's instructions, and specialist servicing requirements are reported in accordance with company procedures.
- Range maintenance may include but is not limited to – minor adjustments to machines, notifying person responsible for corrective action.

Outcome 4

Shred tyres, contain outputs, and clear the site.

Performance criteria

- 4.1 Input tyres are assessed for processing in accordance with job requirements and company procedures.
- Range batch quantities, components, contamination.
- 4.2 Tyres are received and fed into the machine in accordance with company procedures.
- 4.3 Specifications are maintained during processing in accordance with company procedures.
- Range specifications may include but are not limited to – size of output pieces, contamination limit.
- 4.4 Tyre throughput is maintained in accordance with processing schedules.

- 4.5 Output is contained for storage or transport in accordance with client and company requirements.

Range may include but is not limited to – crate, bale, fadge, stockpile.

- 4.6 Housekeeping and clean up of site is demonstrated in accordance with company procedures.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 January 2007	31 December 2025
Rollover and Revision	2	28 March 2019	31 December 2025
Review	3	24 April 2025	31 December 2025

Consent and Moderation Requirements (CMR) reference

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.