

Title	Describe and operate a separate circuit at a lime mill processing plant		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: describe the operational characteristics and performance of a separate circuit; describe safe work practices and conditions for operating a separate circuit; check readiness and operate a separate circuit at a lime mill processing plant; and empty and shut down a separate circuit and complete documentation, at a lime mill processing plant.
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Classification	Extractive Industries > Surface Extraction
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Available grade	Achieved
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Guidance Information

- Performance of the outcomes of this unit standard must comply with the following:
 - Health and Safety at Work Act 2015 (HSW);
 - Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;
 - Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016;
 - Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 and related Safe Work Instruments (SWIs) published by WorkSafe NZ;
 - approved codes of practice issued pursuant to the HSW Act;
 - Hazardous Substances and New Organisms Act 1996;
 - WorkSafe NZ's Good Practice Guidelines for the extractives industries, including *Health and Safety at Opencast Mines, Alluvial Mines and Quarries Good Practice Guidelines 2015*, available from <https://worksafe.govt.nz/>;
 - Machine operating manual.
- Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Environmental Protection Authority (EPA) is responsible for assessing and approving hazardous substances and, where appropriate, setting controls on the way the substance is used. Any questions relating to the provisions for hazardous substances should be directed to [EPA New Zealand](https://www.epa.govt.nz/).

4 Definitions

Industry best practice refers to those practices which competent practitioners within the industry recognise as current industry best practice. These may be documented in management plans, company procedures or requirements, managers' rules, occupational health and safety policy, industry guidelines, codes of practice, manufacturers' instructions, and safe working and/or job procedures (or equivalent). *Site requirements* mean the documented methods for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.

5 This unit standard is intended for, but is not limited to, workplace assessment.

Outcomes and performance criteria

Outcome 1

Describe the operational characteristics and performance of a separate circuit at a lime mill processing plant.

Performance criteria

1.1 The operational characteristics and performance of a separate circuit are described in terms of its operation a lime mill processing plant.

Range sampling methods, safety features, controls, operating procedures, feed methods, discharge methods, components.

Outcome 2

Describe safe work practices and conditions for operating a separate circuit at a lime mill processing plant.

Performance criteria

2.1 The safe work practice and conditions for the separate circuit operation are described in accordance with industry best practice.

Range safety check, documentation, feed quantity and quality, feed system, lubrication, accessibility, ventilation, emergency stops, sequencing, pre-start alarms.

Outcome 3

Check readiness and operate a separate circuit at a lime mill processing plant.

Performance criteria

- 3.1 Checks on a separate circuit are completed in accordance with industry best practice.
- Range may include but is not limited to – safety check, documentation, feed quantity and quality, feed system, lubrication, capacity, pre-start checks.
- 3.2 Identified defects are reported and managed in accordance with industry best practice and/or site requirements.
- 3.3 Separate circuit is operated in accordance with the job requirements and plant specifications.
- Range operation includes but is not limited to – feed quantity and quality, feed system, discharge, drive systems, product monitoring.
- 3.4 Product is separated into lines in accordance with required final product parameters.
- 3.5 Product meeting final specification is despatched to packaging or storage in accordance with industry best practice.
- 3.6 Product is packaged and despatched where required in accordance with industry best practice.
- 3.7 Product not meeting final specification is re-circulated for further milling in accordance with industry best practice.
- 3.8 Additional non-specification product and additives, where applicable, are added for further milling in accordance with industry best practice.

Outcome 4

Empty and shut down a separate circuit and complete documentation.

Performance criteria

- 4.1 Separate circuit is emptied in accordance with industry best practice.
- 4.2 Separate circuit is shut down in accordance with industry best practice.
- 4.3 Identified defects are reported and managed in accordance with industry best practice.

- 4.4 Documentation is completed in accordance with industry best practice and/or site requirements.

Replacement information	This unit standard replaced unit standard 14869.
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Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 September 2005	31 December 2019
Rollover and Revision	2	16 July 2010	N/A
Rollover and Revision	3	25 January 2018	N/A

Consent and Moderation Requirements (CMR) reference	0114
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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.