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| Title | Demonstrate knowledge of and operate a lime mill processing plant | | |
| Level | 4 | Credits | 45 |

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| Purpose | People credited with this unit standard are able to: demonstrate knowledge of the operation and operating principles of the lime milling plant; prepare lime mill and raw material for milling; operate and maintain lime milling equipment and work safely at a lime mill. |
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| Classification | Extractive Industries > Surface Extraction |
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| Available grade | Achieved |
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Guidance Information

- 1 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 (Worker Engagement, Participation, and Representation) Regulations 2016;
Health and Safety at Work (Mining Operations and Quarrying Operations) 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;
Occupational health and safety guidelines, available at <https://worksafe.govt.nz/>.
- 2 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.
- 3 **Definition**
Production requirements, product specifications, company policy and company procedures 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.
- 4 This unit standard is intended for, but is not limited to, workplace assessment.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the operation and operating principles of the lime milling plant.

Performance criteria

- 1.1 The purpose of the plant is described in terms of plant output meeting production requirements and client specifications of end product.
- 1.2 Operating components of the milling plant are described in relation to their function as a part of the overall process.
- 1.3 The operating principles of the plant are described.
- Range source of product for milling; stages of milling; sampling to meet client specifications; requirements of the condition of the product to meet the next stage of processing; uses and purpose of product.
- 1.4 Specific compliance requirements and conditions related to regulatory authorities are described in terms of their impact on the operation of the milling plant.

Outcome 2

Prepare lime mill and raw material for milling.

Performance criteria

- 2.1 Products for milling are checked for availability, meet the conditions required for milling, are free from foreign matter and in sufficient quantity for scheduled and anticipated production.
- Range size, moisture, chemistry.
- 2.2 Preparation of mill conforms to input or feed requirements and finished product specifications.
- 2.3 Documentation related to mill operation is complete and accurately reflects current operating procedures.
- 2.4 Preparation of lime mill and raw materials for milling complies with company policy, company procedures and legislation.
- Range policy and procedures relevant to – work instructions, manuals, operating procedures, quality standards, wear and tear, conveyor system.

- 2.5 Worn components and faults are identified and repaired or notified in accordance with company procedures.
- 2.6 Safety equipment is checked for availability and operational worthiness prior to scheduled production.

Outcome 3

Operate and maintain lime milling equipment.

Performance criteria

- 3.1 Raw material intake into mill is controlled to ensure that product is milled in correct quantity within agreed timeframe in accordance with production specifications.
- 3.2 Granule size of milled product is checked for conformation to product specifications and non-specification granules are identified in terms of adjustments needed to plant.
- 3.3 Operation of milling equipment optimises product quality and equipment performance.
- 3.4 Variations of milling equipment and product are identified, and personnel authorised to act are informed within a timeframe that minimises production downtime.
- Range variations – mechanical, electrical, quantity, quality.
- 3.5 Operation of milling equipment complies with company policy, procedures and legislation.
- Range policy and procedures relevant to – work instructions, manuals, operating procedures, quality standards.

Outcome 4

Work safely at a lime mill.

Performance criteria

- 4.1 Work practices are carried out without injury to people or damage to equipment, building or plant in accordance with company safe working practices and/or manufacturer's instructions.
- 4.2 Personal protective equipment appropriate to the current task is selected and worn in accordance with company safe working practices and/or manufacturer's instructions.
- 4.3 Working area is kept clear of debris and unnecessary equipment in accordance with company safe working practices and/or manufacturer's instructions.

- 4.4 Ability to isolate plant and/or components prior to clearing and cleaning is demonstrated in accordance with company safe working practices and/or manufacturer's instructions.
- 4.5 Preventative maintenance and routine maintenance schedules in respect of the processing plant are identified and carried out in accordance with company safe working practices and/or manufacturer's instructions.

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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 |
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| Registration | 1 | 24 April 1998 | 31 December 2019 |
| Revision | 2 | 17 April 2002 | 31 December 2019 |
| Review | 3 | 27 January 2005 | N/A |
| Rollover and Revision | 4 | 16 July 2010 | N/A |
| Rollover and Revision | 5 | 25 January 2018 | N/A |

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| 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.