

Title	Describe and operate primary feed systems at a sand extraction site		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: describe the operational characteristics and performance of primary feed systems; describe safe work practices and conditions for operating a primary feed system; check readiness and operate a primary feed system; and shut down a primary feed system and complete documentation, at a sand extraction site.
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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;
 - approved codes of practice issued pursuant to the HSW Act.
- 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 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.
- 4 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 primary feed systems at a sand extraction site.

Performance criteria

1.1 The operational characteristics and performance of primary feed system components are described in terms of its operation at a sand extraction site.

Range may include but is not limited to – stackers, raw material stockpile, surge bins, reclaim, conveyors, trommels, screens, slurry bin, slurry feed, scrubber.

Outcome 2

Describe safe work practices and conditions for operating a primary feed system at a sand extraction site.

Performance criteria

2.1 Safe work practices and conditions for a primary feed system are described in accordance with industry best practice.

Range may include but is not limited to – fire fighting, trip-out/cut-off, alarm levels, communications, tunnel safety, isolation procedures.

Outcome 3

Check readiness and operate a primary feed system at a sand extraction site.

Performance criteria

3.1 Checks on a primary feed system are completed in accordance with industry best practice.

Range may include but is not limited to – raw material reclaim feeders, conveyor belt tracking, trommel splitter settings, changing trommel screens, adjusting head feed rate, pre-start checks, slurry pumps start-up procedures, control systems, shut-down procedures, emergency stops, resets, going off feed.

3.2 Identified defects are reported and managed in accordance with industry best practice and/or site requirements.

Range may include but is not limited to – blocked feeders, hang-ups, reclaim tracking, de-watering of tunnels, cleaning of walkways, ramps and ladderways, trommel screen damage, spillage, housekeeping, blocked slurry lines.

3.3 The primary feed is operated in accordance with throughput and material movement.

Range may include but is not limited to – stockpile, surge capacity, production levels, reclaim rate, trommel/screen operation, slurry capacity and concentration, processing plant input.

Outcome 4

Shut down a primary feed system and complete documentation.

Performance criteria

4.1 Primary feed system is shut down in accordance with industry best practice.

4.2 Identified defects and hazards are reported and managed in accordance with industry best practice.

Range may include but is not limited to – operator logsheets, raw material stockpile capacity, slurry pumping.

4.3 Documentation is completed in accordance with industry best practice.

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	31 July 2001	31 December 2019
Review	2	23 September 2005	N/A
Rollover and Revision	3	16 July 2010	N/A
Rollover and Revision	4	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.