

Title	Select, design, maintain, and manage stockpiles at an extractive site		
Level	5	Credits	15

Purpose	People credited with this unit standard are able to: identify the objectives, evaluate the stockpile site options, select the design, and construct a stockpile; maintain and manage the stockpile; and complete the documentation and reporting required for stockpiles.
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Classification	Extractive Industries > Extractive Industries Management
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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
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 legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.
Industry best practice may be documented in management plans, control plans, company procedures, managers' rules, occupational health and safety policy, industry guidelines, codes of practice, manufacturers' instructions, and safe working and/or job procedures (or equivalent).
- 4 This unit standard is intended for workplace assessment.

Outcomes and performance criteria

Outcome 1

Identify the objectives, evaluate the stockpile site options, select the design, and construct a stockpile.

Performance criteria

1.1 Product requirements for the market are identified in terms of quantity and product specifications in accordance with company procedures.

Range may include but is not limited to – specifications, type, volume, storage capacity, delivery.

1.2 Stockpiling site is analysed in terms of existing physical constraints.

Range may include but is not limited to – site availability, ground conditions, geotechnical assessment, consent conditions, risk of contamination, drainage, location, and topography, traffic conditions, frequency of use, overhead constraints, and quarry or site plan.

1.3 Selected site is checked against site plan and a recommendation is made in accordance with company procedures.

1.4 Preparation of the stockpile site is carried out in accordance with company procedures.

Range may include but is not limited to – site availability, site plan, stockpile positioning, ground conditions, drainage, contamination controls, services location, base construction.

1.5 Stockpile design is selected and stockpile construction is carried out in accordance with company procedures.

Range may include but is not limited to – shape and size, types of stockpile, feed systems, reclaim systems, building the stockpile, raw material, finished product, bins, hoppers, other stockpile purposes.

Outcome 2

Maintain and manage the stockpile.

Performance criteria

- 2.1 The stockpile is managed and operated in accordance with market requirements, industry best practice, and company procedures.
- Range may include but is not limited to – feed, reclaim, stability control, control systems, working the stockpile, blending methods, load-out, water management, slope stability, contamination control, weather protection, ramps and access, capacity, feeder checks, stacking, reclaim checks, tracking adjustments, density adjustments, de-watering, screens, trommels, plant and equipment checks.
- 2.2 Stockpile problems are remedied in accordance with industry best practice and company procedures.
- Range may include but is not limited to – blocked feeders, hang-ups, reclaim tracking, screen and mat replacement, de-watering of reclaim tunnels, cleaning of walkways, ramps and ladder ways, housekeeping, safety features, isolation procedures.
- 2.3 Stockpile operation is started and shut down in accordance with industry best practice and company procedures.
- Range may include but is not limited to – control system, control room, communications, emergency stops, resets.

Outcome 3

Complete documentation and reporting required for stockpiles.

Performance criteria

- 3.1 Reporting and recording for stockpiles are completed in accordance with industry best practice.
- Range may include but is not limited to – weighbridge records, stockpile surveys, operator log sheets, control room reports, climate reports, sampling, quality monitoring, hazard reporting.

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 2017
Review	2	24 November 2005	31 December 2017
Rollover and Revision	3	16 July 2010	31 December 2017
Review	4	18 June 2015	N/A
Rollover and Revision	5	25 January 2018	N/A

Consent and Moderation Requirements (CMR) reference

0114

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.