

Title	Select crushing and screening plant for extractive industries		
Level	5	Credits	10

Purpose	People credited with this unit standard are able to: analyse and select crushing plant for extractive industries, analyse and select screen types for extractive industries, and evaluate the layout of the selected plant.
----------------	---

Classification	Extractive Industries > Extractive Industries Management
-----------------------	--

Available grade	Achieved
------------------------	----------

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 (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;
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/>.
- 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.

Outcomes and performance criteria

Outcome 1

Analyse and select crushing plant for extractive industries.

Range primary, secondary, tertiary.

Performance criteria

- 1.1 Rock material to be crushed is identified in terms of volume and type.

1.2 The attributes and specifications of crushers are analysed and selection is made in accordance with selection criteria.

Range may include but is not limited to criteria relating to – process flow, optimisation, consent conditions, product requirements, budget, material to be processed, mobile plant.

Outcome 2

Analyse and select screen types for extractive industries.

Performance criteria

2.1 The attributes and specifications of screen types are analysed and selection is made in accordance with selection criteria.

Range may include but is not limited to criteria relating to – process flow, consent conditions, product requirements, budget, geology, mobile plant, product volumes.

2.2 The configuration and surface of the screens are analysed in relation to the selected equipment and required output.

Range may include but is not limited to – woven wire, perforated, rods, plastic mats, mesh characteristics, size and shape.

Outcome 3

Evaluate the layout of the selected plant.

Performance criteria

3.1 The interrelationship of selected crushers and screens is evaluated in terms of output requirements and site layout.

Range may include but is not limited to – stockpiles, reclaim, feed system access, processing plant flowchart, load-out, topography.

Replacement information	This unit standard and unit standard 25878 replaced unit standard 21157.
--------------------------------	--

Planned review date	31 December 2022
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 August 2009	31 December 2017
Review	2	18 June 2015	N/A
Rollover and Revision	3	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.