

Title	Produce product using a mobile crushing plant		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: plan and prepare for work on mobile crushing plant; carry out pre-start checks on mobile crushing plant; test mobile crushing plant operation and settings; crush material; complete shut-down procedures and maintenance checks for mobile crushing plant; and transport mobile crushing plant.
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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;
 - Land Transport Act 1998;
 - 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/>.
- 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, but is not limited to, workplace assessment.

Outcomes and performance criteria

Outcome 1

Plan and prepare for work on mobile crushing plant.

Performance criteria

- 1.1 Crushing plant daily schedule and size and type of materials to be crushed are determined in accordance with company procedures and/or manufacturer's instructions.
- 1.2 Communication methods are determined in accordance with company procedures and/or manufacturer's instructions.
- Range includes – signals;
may include – use of two-way radios.
- 1.3 Crushing plant personnel are directed in accordance with daily schedule of tasks.
- 1.4 Personal protective equipment is selected, fitted, and used in accordance with company procedures and/or manufacturer's instructions.
- Range includes but is not limited to – safety boots, safety glasses, earmuffs, hardhat;
may include – overalls, dust protection, gloves.

Outcome 2

Carry out pre-start checks on mobile crushing plant.

Performance criteria

- 2.1 Pre-start checks on crushing plant and equipment are carried out in accordance with company procedures and manufacturer's specifications.
- 2.2 Visual checks of machinery are conducted to identify mechanical problems in accordance with company procedures and manufacturer's specifications.
- 2.3 Emergency stops and fail-safe devices are checked in accordance with industry best practice and manufacturer's specifications.

Outcome 3

Test mobile crushing plant operation and settings.

Performance criteria

- 3.1 Crushing plant and equipment are tested in accordance with company procedures and current production schedule.

- 3.2 Conveyor belts, screens, rollers, and other ancillary equipment are checked in accordance with plant configuration.

Outcome 4

Crush material.

Performance criteria

- 4.1 Material is selected from the correct stockpile in accordance with the quality plan and production schedule.
- 4.2 Uncrushed materials are directed into hopper in accordance with site safety procedures.
- 4.3 Feed of uncrushed materials is maintained according to crushing plant operating manual and company procedures.
- 4.4 Crushed material quality is maintained using scalping systems in accordance with plant specifications.
- 4.5 Crushing plant is stopped, isolated, cleared of blocked materials, and restarted, where required in accordance with safety plan and manufacturer's instructions.
- 4.6 Machinery loads and plant settings are maintained in accordance with manufacturer's instructions, company procedures, and production schedule.
- 4.7 Procedures for safe operating of crushing plant are followed in accordance with manufacturer's and company procedures.

Range includes – isolation, guards, removal of foreign and unspecified materials, feed rates, emergency procedures, hazards, machinery defects, lighting, work area preparation, quarry safety rules and regulations;
may include – belt picker platforms.

Outcome 5

Complete shut-down procedures and maintenance checks for mobile crushing plant.

Performance criteria

- 5.1 Conveyor system is shut down in accordance with plant configuration and shut-down sequence outlined in crushing plant maintenance manual.
- Range may include – belt picking area.
- 5.2 Conveyors are cleared of material in accordance with company procedures.
- 5.3 Waste materials are placed in plant waste bins in accordance with company procedures.

- 5.4 Daily or periodic maintenance is carried out in accordance with plant maintenance schedule and manufacturer's instructions.

Outcome 6

Transport mobile crushing plant.

Performance criteria

- 6.1 Plant is disassembled and prepared for transport in accordance with manufacturer's instructions and company procedures.
- 6.2 Plant is secured for transporting as required by company procedures and the Land Transport Act 1998.
- 6.3 Legal dimensions and regulations relating to transporting of plant between sites are observed in accordance with the Land Transport Act 1998.
- 6.4 Plant layout and set-up are completed to the requirements of new production sites.

Range may include – quarry, riverbed, escarpments, depots.

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	26 November 1996	31 December 2017
Revision	2	17 December 1996	31 December 2017
Revision	3	18 December 1998	31 December 2017
Revision	4	17 April 2002	31 December 2017
Review	5	27 January 2005	31 December 2017
Rollover and Revision	6	16 July 2010	31 December 2017
Review	7	18 June 2015	N/A
Rollover and Revision	8	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.