

Title	Control quality of product from operation of mobile and static sizing plant		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate knowledge of source material for product; demonstrate knowledge of testing procedures for specified products, and methods of stockpiling product; control production to meet client requirements; and demonstrate knowledge of product suitability for customer requirements.
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Classification	Extractive Industries > Surface Extraction
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Available grade	Achieved
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Guidance Information

- 1 Trainees must have source information including the following:
 - Methods of sampling and testing road aggregates;
 - Any required standards for sampling and testing concrete aggregates;
 - Specification for water and aggregate for concrete;
 - Specification for aggregate for roads.
- 2 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, available from <https://worksafe.govt.nz/>.
- 3 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.
- 4 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).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of source material for product.

Performance criteria

1.1 Terminology is defined in the context of surface extraction.

Range may include but is not limited to – crushing resistance, polished stone value, plasticity index, sand equivalent, weathering resistance, hardness, grindability; evidence is required for terminology used at a selected site.

1.2 Specific products are identified in the context of surface extraction.

Range evidence is required for product grades of a selected site; for aggregate sites evidence is required of four of – NRB M10, NRB T5, NRB M3, TNZ M4, TNZ M5, TNZ M6.

1.3 The industry standard methods of determining size, shape, and grading of product are described in relation to the selected site.

Range may include but is not limited to – primary, secondary and tertiary crushers, screens, trommel, filters, sieves, grizzly.

Outcome 2

Demonstrate knowledge of testing procedures for specified products, and methods of stockpiling product.

Performance criteria

2.1 The testing procedures for company products are described in relation to the levels of quality analysis required in accordance with industry best practice and company procedures.

2.2 The methods of stockpiling products are described in relation to their effectiveness for given types of products and their safe working in accordance with industry best practice and company procedures.

2.3 The avoidance of segregation and contamination of products is described in accordance with industry best practice and company procedures.

Range may include but is not limited to – tyres, loader or excavator buckets, wind, vegetation, erosion, slope stability, mobile traffic, extraneous material.

Outcome 3

Control production to meet client requirements.

Range may include but is not limited to – company operational tests, reading test sheets, adjustments of crushers, screens and meshes, blending at stockpile, stockpile capacity, stockpile turnover.

Performance criteria

3.1 Test analysis results of the product are checked against company and client requirements.

3.2 Crusher settings are adjusted and mix altered, where required, to correct anomalies found in test analysis in accordance with company procedures.

3.3 Screens are changed, where required, to correct anomalies found in test analysis results in accordance with company procedures.

3.4 Products are mixed and blended in accordance with client requirements.

Outcome 4

Demonstrate knowledge of product suitability for customer requirements.

Performance criteria

4.1 The range of company products is described in terms of their suitability for targeted customers.

4.2 Product is described in terms of its suitability for given purposes.

Range given purposes may include but are not limited to – builders mix, drain course, domestic base courses; evidence of two is required.

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	25 July 1999	31 December 2017
Review	2	27 January 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.