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|--------------|-------------------------------------|----------------|-----------|
| <b>Title</b> | <b>Shape natural stone products</b> |                |           |
| <b>Level</b> | <b>3</b>                            | <b>Credits</b> | <b>12</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to: set up work area for shaping of natural stone products; shape natural stone products by machine and by hand; and complete work operations. |
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| <b>Classification</b> | Masonry > Stonemasonry |
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| <b>Available grade</b> | Achieved |
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### Explanatory notes

- 1 Legislation and guides relevant to this unit standard include:  
Health and Safety in Employment Act 1992 (HSE Act);  
Resource Management Act 1991;  
*A Guide to Respiratory Protection* (Department of Labour, 1999), available at <http://www.osh.govt.nz/order/catalogue/pdf/RespiratoryProtection.pdf>.
- 2 Glossary of Terms  
*Company requirements* refer to instructions to staff on policy and procedures that are documented in memo or manual form and are relevant to the workplace.  
*Specifications* refer to documented specifications and may include any or all of the following: manufacturer's specifications and/or recommendations; material specifications; job specifications; and specialist specifications, for example: architect; designer; engineer; client.  
*Site safety plan* refers to the documented safety plan for the site which is required by law to ensure compliance with the requirements of the HSE Act 1992.
- 3 Reference material relevant to this unit standard includes:  
Safety data sheets relevant to products or materials being used for this unit standard, available from manufacturers or suppliers, containing product ingredient content, safe application and use information.
- 4 Natural stone products include granite, marble, basalt, and limestone.

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### Outcomes and evidence requirements

#### Outcome 1

Set up work area for shaping of natural stone products.

**Evidence requirements**

- 1.1 Requirements for shape and surface finish are verified in accordance with specifications.
- 1.2 Equipment is selected according to material and in accordance with specifications.
- 1.3 Blemishes are detected and remedial action is taken in accordance with company requirements.
- Range all cracks, scratches, chips, and other imperfections.
- 1.4 Equipment is set up in accordance with specifications.
- 1.5 Selected stone is lifted in accordance with company requirements.
- Range transport, lifting techniques, positioning of stone.

**Outcome 2**

Shape natural stone products by machine.

Range saw, contour wheel.

**Evidence requirements**

- 2.1 Stone is positioned in accordance with company requirements.
- Range centred, level, square, stable.
- 2.2 Stone is secured in place in accordance with company requirements and site safety requirements.
- 2.3 Template is prepared in accordance with specifications.
- 2.4 Machine is operated in accordance with specifications.
- 2.5 Finished shape is in accordance with specifications.

**Outcome 3**

Shape natural stone products by hand.

**Evidence requirements**

- 3.1 Tools are selected for shaping according to material and in accordance with specifications.
- Range hand tools, power tools.
- 3.2 Template is prepared in accordance with specifications.

- 3.3 Shaping is completed in accordance with specifications.  
Range sides, tops, mitres.
- 3.4 Design is filed for reference in accordance with company requirements.
- 3.5 Shaped stone is clean and dry prior to stacking in accordance with company requirements.
- 3.6 Work area is cleaned in accordance with company requirements.

**Outcome 4**

Complete work operations.

**Evidence requirements**

- 4.1 Operations are completed without damage to project, plant, and materials.
- 4.2 Activities comply with the requirements of the site safety plan.
- 4.3 Plant is used, maintained, repaired, cleaned, and stored in accordance with specifications and company requirements.
- 4.4 Documentation is completed in accordance with company requirements.
- 4.5 Surplus materials are dealt with in accordance with legal and company requirements.  
Range hazardous, non-hazardous.

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| <b>Planned review date</b> | 31 December 2013 |
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**Status information and last date for assessment for superseded versions**

| Process      | Version | Date              | Last Date for Assessment |
|--------------|---------|-------------------|--------------------------|
| Registration | 1       | 30 January 1997   | 31 December 2011         |
| Revision     | 2       | 8 April 1999      | 31 December 2011         |
| Review       | 3       | 19 September 2008 | 31 December 2011         |
| Revision     | 4       | 21 July 2011      | N/A                      |

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| <b>Consent and Moderation Requirements (CMR) reference</b> | 0048 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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**Comments on this unit standard**

Please contact the Building and Construction Industry Training Organisation [national.office@bcito.org.nz](mailto:national.office@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.