

|              |  |                |          |
|--------------|--|----------------|----------|
| <b>Title</b> | <b>Demonstrate knowledge of the operation of CNC machines to produce glass, joinery or joinery related items</b> |                |          |
| <b>Level</b> | <b>3</b>   | <b>Credits</b> | <b>2</b> |

|                |   |
|----------------|---|
| <b>Purpose</b> | <p>This entry-level unit standard is for people working in the glass, joinery or joinery related industries using CNC machines.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: the preparation procedures for using a CNC machine; the required materials and their preparation for a CNC machining job; the procedures for setting a CNC machine; and the procedures for operating a CNC machine to produce glass, joinery or joinery related items.</p> |
|----------------|---|

|                       |                               |
|-----------------------|-------------------------------|
| <b>Classification</b> | Joinery > Joinery Core Skills |
|-----------------------|-------------------------------|

|                        |          |
|------------------------|----------|
| <b>Available grade</b> | Achieved |
|------------------------|----------|

**Explanatory notes**

- 1 All workplace practices must comply with current legislation, codes of practice, and documented site safety procedures for personal, product, and worksite safety.
- 2 Legislation and regulations relevant to this unit standard include but are not limited to – Health and Safety in Employment Act 1992, Health and Safety in Employment Regulations 1995.
- 3 Definition  
*CNC machine* refers to a Computer Numerical Control machine.

**Outcomes and evidence requirements**

**Outcome 1**

Demonstrate knowledge of the preparation procedures for using a CNC machine to produce glass, joinery, or joinery related items.

**Evidence requirements**

- 1.1 Required safety equipment and its use are described for a CNC machine in terms of manufacturer’s specifications and workplace practice.

Range safety equipment includes but is not limited to – personal safety equipment (eye protection, hearing protection, skin protection, protection from inhalation, foot protection), safety devices (laser

beams, pressure pads).

- 1.2 Pre start-up procedures for machine operation are described in terms of legislation, manufacturer's specifications, and workplace practice.

Range pre start-up procedures include but are not limited to – check for presence of services.

## Outcome 2

Demonstrate knowledge of the required materials and their preparation for a CNC machining job.

### Evidence requirements

- 2.1 Materials required for a machining job are described in terms of workplace practice.

- 2.2 Any defects in materials are identified and described in terms of workplace practice.

- 2.3 Procedures for delivery of materials to the CNC machine in preparation for the operation are described in terms of workplace practice.

## Outcome 3

Demonstrate knowledge of the procedures for setting a CNC machine to produce glass, joinery, or joinery related items.

### Evidence requirements

- 3.1 Procedures for tool selection and mounting are described in terms of manufacturer's specifications and workplace practice.

- 3.2 Procedures for checking tools for defects are described in terms of manufacturer's specifications and workplace practice.

- 3.3 Any defects in tools are identified and described in terms of workplace practice.

- 3.4 Procedures for maintenance and lubrication of machine and parts are described in terms of manufacturer's specifications and workplace practice.

Range maintenance and lubrication includes but is not limited to – air filters, oil levels, greasing.

- 3.5 Procedures for routine and minor maintenance of equipment are described in terms of manufacturer's specifications, and workplace practice.

Range routine and minor maintenance includes but is not limited to – oiling, greasing, cleaning.

**Outcome 4**

Demonstrate knowledge of the procedures for operating a CNC machine to produce glass, joinery, or joinery related items.

**Evidence requirements**

- 4.1 Machine operation is described in terms of health and safety regulations, job specifications, and workplace practice.
- 4.2 Procedures for monitoring and adjusting output of machine to ensure continuity of the process are described in terms of workplace practice.
- 4.3 Any defects in product produced are identified, and described in terms of workplace practice.
- 4.4 Setting adjustments for machine tools and implements are described in terms of workplace practice.
- 4.5 Procedures for identifying and reporting operating faults are described in terms of workplace practice.
- 4.6 Time limits for machine output are described in terms of job specifications.
- 4.7 Procedures for machine and work-area clean-up are described in terms of workplace practice.

|                            |                  |
|----------------------------|------------------|
| <b>Planned review date</b> | 31 December 2018 |
|----------------------------|------------------|

**Status information and last date for assessment for superseded versions**

| Process      | Version | Date            | Last Date for Assessment |
|--------------|---------|-----------------|--------------------------|
| Registration | 1       | 28 June 2005    | 31 December 2013         |
| Review       | 2       | 23 January 2009 | 31 December 2015         |
| Review       | 3       | 24 October 2014 | N/A                      |

|  |      |
|--|------|
| <b>Consent and Moderation Requirements (CMR) reference</b> | 0073 |
|--|------|

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 (CMR). 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.

---

### **Comments on this unit standard**

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