

Title	Operate a Computer Numerical Controlled beamsaw		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to demonstrate and apply knowledge of: preparing to operate; and operating a Computer Numerical Controlled (CNC) beamsaw.
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Classification	Furniture > Furniture and Cabinet Making
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Guidance Information

- 1 Assessment information
This unit standard must be assessed against on-job.
All activities and performance criteria must be carried out in accordance with worksite policies and procedures.
- 2 Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.
- 3 Reference
Guidance for woodworking machinery, available at <https://worksafe.govt.nz/topic-and-industry/machinery/woodworking>.
- 4 Definitions
Manufacturer's instructions are instructions provided by manufacturers of substances, equipment, and machinery used in furniture making. These instructions may include details on safe and correct handling, use and storage of substances and/or details on substance properties. Examples are labels on substance containers, product data sheets, and operator's manuals.
SOIs refer to safe operating instructions which are documented instructions attached to machines which detail requirements for safe operation of the particular machine.
Worksite policies and procedures refer to documented policies and to documented or other directions provided to staff. These may include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production, and must conform to legislation. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.

Outcomes and performance criteria

Outcome 1

Demonstrate and apply knowledge of preparing to operate a CNC beamsaw.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range number of components, dimensions, material type, cutting patterns, time limits.
- 1.2 Material is selected, stacked, and positioned.
- 1.3 Machine safety features are identified, and their purpose explained in accordance with manufacturer's instructions and SOIs.
- Range must include but is not limited to – emergency stop, guards, isolating switch.
- 1.4 Techniques for safely transporting and loading material onto the machine are explained.
- Range carrying, lifting, flipping panels, transporting.
- 1.5 Environmental and safety requirements are met.
- Range electrical power, lighting, ventilation, dust extraction.

Outcome 2

Demonstrate and apply knowledge of operating a CNC beamsaw.

Performance criteria

- 2.1 Pre-start checks are performed in accordance with the manufacturer's recommendations.
- 2.2 Machine is started in accordance with SOIs.
- 2.3 One test sheet of job material is run through the machine and checked in accordance with job specifications. Actions to be taken if out of specification components are present are explained.
- 2.4 Sheets are loaded onto the machine to cut components in accordance with job specifications and SOIs.
- Range square to the fence, slotted in firmly before clamping.
- 2.5 Components are produced to specification and within the time limits in accordance with job specifications.
- 2.6 Off-cuts are removed from the work area during operation in accordance with SOIs.

- 2.7 Output is monitored to ensure components meet job specifications.
Range component dimensions, number of components.
- 2.8 The procedure to be followed when defects in components are identified is explained.
- 2.9 Components are identified or labelled and stored.
- 2.10 Machine is cleaned, and waste material disposed of.
- 2.11 Work area is made clean, clear, and safe.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 2009	N/A
Review	2	28 January 2021	N/A

Consent and Moderation Requirements (CMR) reference	0173
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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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.