Title	Program and set a Computer Numerical Controlled beam saw		
Level	4	Credits	5

PurposePeople credited with this unit standard are able to demonstrate and apply knowledge of: preparing to set; and programming and setting a Computer Numerical Controlled (CNC) beam saw.

Classification F	Furniture > Furniture and Cabinet Making	
Available grade A	Achieved	

Guidance Information

- 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 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. *Work holding devices* refer to any machinery attachments used to hold the panels that will be cut. Examples include clamps and pneumatic rams.

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 set a CNC beam saw.

Performance criteria

1.1 Environmental and safety requirements are met.

Range electrical power, lighting, ventilation, dust extraction.

1.2 Pre-start check is undertaken in accordance with manufacturer's instructions and SOIs.

Range oil and air supply, work holding devices.

- 1.3 Scheduled maintenance requirements for the machine are explained in accordance with manufacturer's instructions.
- 1.4 Machine is turned on, calibrated, and put into safe mode in accordance with manufacturer's instructions and SOIs.
- 1.5 Cutting list is obtained and explained.
 - Range number of components, component dimensions, materials.
- 1.6 Saw blade and scriber blade are selected in accordance with job specifications and are checked for defects in accordance with manufacturer's specifications. Action to be taken if defects in the blades are present is explained.

Outcome 2

Demonstrate and apply knowledge of programming and setting a CNC beam saw.

Performance criteria

- 2.1 Saw blade and scriber blade are removed and selected saw blade and scriber blade are fitted in accordance with machine manufacturer's instructions.
- 2.2 Cutting pattern is developed to minimise waste in accordance with job specifications.
- 2.3 Rip cuts and cross cuts are programmed into machine in accordance with cutting pattern.
- 2.4 Test piece is run to check for alignment of saw cuts, saw cut break-outs, panel dimensions, and surface damage.
- 2.5 Procedures for adjusting the machine when faults are identified in the test piece are explained in accordance with manufacturer's instructions.
 - Range misalignment of saw cuts, saw cut break-outs, incorrect panel dimensions, surface damage.
- 2.6 Machine is put into safe mode after running test piece in accordance with SOIs.
- 2.7 Machine is cleaned, and waste material is disposed of.

2.8 Work area is left clean, clear, and safe.

Planned review date	31 December 2024

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 February 2002	31 December 2023
Review	2	19 June 2009	N/A
Review	3	10 December 2020	N/A

Consent and Moderation Requirements (CMR) reference	0173			
This CMR can be accessed at <u>http://www.nzqa.govt.nz/framework/search/index.do</u> .				

Comments on this unit standard

Please contact Competenz <u>qualifications@competenz.org.nz</u> if you wish to suggest changes to the content of this unit standard.