

Title	Set and operate a triple borer machine to bore furniture components		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate and apply knowledge of preparing to set and operate a triple borer machine; set a triple borer machine to bore furniture components; and demonstrate and apply knowledge of operating a triple borer machine, to bore furniture components.
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Classification	Furniture > Furniture and Cabinet Making
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Available grade	Achieved
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Guidance Information

- 1 **Assessment information**
This unit standard must be assessed against on-job.
Job specifications, equipment used, and job output must conform to current commercial industry practice.
All activities and performance criteria must be carried out in accordance with worksite policies and procedures.
- 2 **Range**
Competence may be demonstrated using either a hand-operated triple borer or an air-operated triple borer.
- 3 **Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.**
- 4 **Reference**
Guidance for woodworking machinery, available at <https://worksafe.govt.nz/topic-and-industry/machinery/woodworking>.
- 5 **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 set and operate a triple borer machine.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range component dimensions, number of components, size of holes, position of holes, timeframe.
- 1.2 Components and drills are obtained in accordance with job specifications.
- 1.3 The purpose and safe use of machine operating controls are explained in accordance with manufacturer's instructions.
- Range sliding drilling head unit, clamp.
- 1.4 Setting of triple boring machine is explained in accordance with manufacturer's instructions.
- Range drill holding method in spindles, vertical and horizontal head positioning, height adjustment, drill depth adjustment, fence adjustment, holding clamp.
- 1.5 Maintenance requirements are explained in accordance with manufacturer's instructions.
- Range drill bits, drilling head slides, pneumatic system.
- 1.6 Environmental and safety requirements are met.
- Range electrical power, air supply, lighting, ventilation.

Outcome 2

Set a triple borer machine to bore furniture components.

Performance criteria

- 2.1 Drills are fitted to the machine in accordance with job specifications and manufacturer's instructions.
- 2.2 Drilling head unit is set vertical or horizontal in accordance with job specifications.
- 2.3 Table height is set in accordance with manufacturer's instructions.

- 2.4 Drill depth is set in accordance with job specifications and manufacturer's instructions.
- 2.5 Fence is set in accordance with job specifications and manufacturer's instructions.
- 2.6 Holding clamp is set in accordance with manufacturer's instructions.
- 2.7 Test piece is run, and any required adjustments are made in accordance with job specifications and manufacturer's instructions.

Outcome 3

Demonstrate and apply knowledge of operating a triple borer machine to bore furniture components.

Performance criteria

- 3.1 Pre-start checks are performed in accordance with the manufacturer's recommendations.
- 3.2 Material is loaded into the machine in accordance with the job specifications.
- 3.3 Machine is operated in accordance with SOIs.
- 3.4 Output of machine is monitored to ensure component meets job specifications. Any out of specification or defective materials are rejected and replaced.
- 3.5 The procedure for replacing defective components is explained.
- 3.6 Machine output is produced to specification and within the time limits in accordance with job specifications.
- 3.7 Machine and work area are made clean, clear, and safe.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	7 May 1997	31 December 2011
Review	2	26 February 2002	31 December 2011
Review	3	19 June 2009	31 December 2011
Revision	4	17 September 2010	N/A
Review	5	10 December 2020	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.