

Title	Make a machining jig for a copy shaping machine		
Level	5	Credits	4

Purpose	People credited with this unit standard are able to prepare to make, and make, a machining jig for a copy shaping machine.
----------------	--

Classification	Furniture > Furniture Making
-----------------------	------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 This unit standard must be assessed against on-job.
- 2 Jig used to demonstrate competence must be for one of the following types of copy shaping machines – multi-headed, spindle moulder, lineal shaping machine, rotary shaping machine.
- 3 Competence may be demonstrated on either a Computer Numerical Controlled machine or standard machine.
- 4 Personal protective equipment (PPE), appropriate to job requirements, is to be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.
- 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.
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 plan, on-site briefings, and supervisor's instructions.

Outcomes and performance criteria

Outcome 1

Prepare to make a machining jig for a copy shaping machine.

Performance criteria

- 1.1 Job specifications are obtained and explained in accordance with worksite policies and procedures.
- Range component length and thickness, component shape, number of cycle runs, type of material being machined.
- 1.2 Jig material is selected in accordance with job specifications and worksite policies and procedures.
- 1.3 Jigs' construction is designed and sketched in accordance with job specifications and worksite policies and procedures.

Outcome 2

Make a machining jig for a copy shaping machine.

Performance criteria

- 2.1 Sourced component or shaped profile component for which the jig is to be made is obtained in accordance with job specifications.
- 2.2 Component is measured to determine the dimensions for operation in accordance with job specifications.
- 2.3 Jig base board is selected in accordance with job specifications.
- 2.4 Shaped profile is fixed to, or shaped onto, the base board in accordance with job specifications.
- 2.5 Packer is fixed to the shaped profile to locate the shaped component position in accordance with job specifications.
- 2.6 Holes are bored in the base board to suit the machine holding bolts in accordance with job specifications.
- 2.7 Workpiece is held in position in accordance with worksite policies and procedures.
- Range one of – holding pins, air clamps.
- 2.8 Test piece is run and performance of the jig production is checked with sample in accordance with job specifications.
- 2.9 Jig is named and labelled in accordance with job specifications, and instructions for using jig are written in accordance with worksite policies and procedures.
- 2.10 Jig is stored safely and securely in accordance with worksite policies and procedures.

- 2.11 Machines and work area are made clean, clear, and safe in accordance with worksite policies and procedures.

Replacement information	This unit standard and unit standard 25548 replaced unit standard 18902.
--------------------------------	--

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 2009	31 December 2023
Review	2	10 December 2020	31 December 2023

Consent and Moderation Requirements (CMR) reference	0173
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.