

Title	Manufacture glulam components		
Level	4	Credits	5

Purpose	<p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – prepare glulam components; – manufacture glulam components for a glulam job; and – clean and store tools, plant, and equipment used to manufacture glulam components.
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Classification	Joinery > Joinery Core Skills
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Available grade	Achieved
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Guidance Information

- 1 Legislation and guidelines relevant to this unit standard include:
 - Health and Safety at Work Act 2015; available from www.legislation.govt.nz.
 - *Safe Use of Machinery: Best Practice Guidelines*; available from www.worksafe.govt.nz, and any subsequent amendments and replacements.

- 2 Assessment

Evidence for this unit standard must reflect commercial competence; the ability to demonstrate knowledge and skills in the context of the currently accepted requirements of a business operating in a commercial environment.

Evidence must also reflect commercial standards; the verbal and written information covering company policy, standard operating procedures and processes and job-specific instructions.

This unit standard must be assessed under the supervision of a commercially competent practitioner in workplace conditions that reflect:

 - commercial standards, current health, safety, industry, and workplace requirements; and
 - industry requirements for commercially acceptable timeframes.

- 3 Definitions

Glulam is a process using glue to laminate timber/materials to form curved or straight elements.

Workplace requirements refer to the documented procedures specific to a workplace which set out the standard and the required practices of that workplace. This may include job specifications, procedures, practices, manufacturer recommendations, technical data sheets and material safety data sheets.

Outcomes and performance criteria

Outcome 1

Prepare glulam components.

Performance criteria

- 1.1 Working drawings are used to identify the components required for a glulam job.
- 1.2 On-site measurements are confirmed.
- 1.3 Quantities of materials and adhesives required for the job are determined and an order placed.

Outcome 2

Manufacture glulam components for a glulam job.

Performance criteria

- 2.1 Timber for the glulam process is selected.

Range grain direction, laminate thickness, suitable and unsuitable defects.
- 2.2 Adhesive is selected for the glulam process.
- 2.3 Timber is matched to meet job specifications.
- 2.4 A template or formwork is created to enable cramping.
- 2.5 A cramping system is set up in terms of forming the glulam components to the shape required to meet the job specifications.
- 2.6 Adhesive is applied, and components are assembled and cramped.
- 2.7 Components are finished and protected in accordance with job specifications and workplace requirements.

Outcome 3

Clean and store tools, plant, and equipment used to manufacture glulam components.

Performance criteria

- 3.1 Tools, plant, and equipment used to manufacture glulam components are cleaned and stored in accordance with workplace requirements.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 August 1995	31 December 2013
Review	2	16 August 1995	31 December 2013
Review	3	16 August 1995	31 December 2013
Revision	4	21 October 1997	31 December 2013
Revision	5	20 December 1999	31 December 2013
Revision	6	16 June 2005	31 December 2013
Review	7	23 January 2009	31 December 2015
Review	8	24 October 2014	31 December 2025
Rollover	9	17 September 2015	31 December 2025
Rollover and Revision	10	28 June 2018	31 December 2025
Review	11	30 March 2023	N/A

Consent and Moderation Requirements (CMR) reference	0048
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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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangaAraRau.nz if you wish to suggest changes to the content of this unit standard.