

**Field      Manufacturing**

**Review of *Joinery Core and Operational Skills* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Joinery	Joinery Core Skills	2536, 2541, 2544, 2545, 2547-2549, 2552-2554, 2557, 8609, 14480, 21811, 28205-28213, 28225-28228
	Joinery Operational Skills	28214-28224

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council has completed the review of the unit standards listed above.

**Date new versions published**

**March 2023**

**Planned review date**

**31 December 2027**

**Summary**

Waihanga Ara Rau, Registered Master Joiners, organisations with consent to assess, and representatives from the joinery industry have reviewed the unit standards listed above to update them in line with current industry practice, and to ensure they are fit for purpose. There were no objections to four unit standards being expired with replacements.

Consultation with industry representatives and consent to assess holders occurred throughout May and June 2022. Feedback was received and decisions were made in consultation with providers and the technical advisory group of representatives from the joinery industry that resulted in the changes below.

**Main changes**

- Titles, guidance information, legislation, performance criteria and range statements were amended across the suite of unit standards to reflect the content and scope of the joinery work, and in line with current industry practice and unit standard template requirements.
- Standard setting details were updated to reflect the change of standard setting body to Waihanga Aro Rau Construction and Infrastructure Workforce Development Council from 4 October 2021.
- Unit standards 2544 and 14480, were replaced with 33189, and 2545 and 28208 were replaced with 33190 to reflect current industry practice.
- Five new unit standards have been developed to address a skills and knowledge gap required and for programmes leading to the New Zealand Certificate in Joinery (Level 4) with strands in Cabinetry, Timber Door and Window, Stairs, and Bench Top and Specialty Surfaces [Ref: 2343].
- Unit standards 2536, 2557, 28206, 28210, and 28211 were raised from Level 3 to Level 4 to reflect the complexity of skills and knowledge required to demonstrate knowledge and skills for commercial competence.
- Unit standard 2552 was raised from Level 2 to Level 3 to better reflect the skills and knowledge required to set up, operate, and maintain fixed machinery.
- Unit standard 28206 was raised from Level 3 to Level 4 with two new outcomes to reflect the complexity of skills and knowledge required by joinery technicians.
- Unit standard 28217 was amended, and a new outcome was added to include both a mortiser and tenoner.

- Unit standard 2553 was reduced from Level 5 to Level 4, the credits increased from five to ten, and a new outcome was added to better reflect the skills and knowledge required by joinery technicians.
- Unit standard 28221 was amended to add an outcome to complete a half-sized set-out to manufacture geometric stairs.
- Unit standard 28228 was amended to one outcome for practical assessment and to reflect the notional hours for learning and assessment.
- Unit standards 2552, 2541, 28209, 28210, 28211 credits were amended to reflect the notional hours required to complete training and assessment to set up, operate, and maintain machinery.

**Category C unit standards will expire at the end of December 2025.**

**The last date for assessment of superseded versions of Category B unit standards is December 2025.**

**Detailed list of unit standards – classification, title, level, and credits.**

All changes are in **bold**.

<b>Key to review category</b>	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

Manufacturing > Joinery > Joinery Core Skills

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
2536	Manufacture glulam components	3 <b>4</b>	5	B
2541	Demonstrate knowledge of a joinery operation and plan a workshop layout <b>Explain and evaluate the factors that contribute to the efficient layout and workflow of a joinery workshop</b>	4	4 <b>5</b>	B
2544	Demonstrate knowledge of ordering, receiving, handling, and storing joinery materials	2	3	C
14480 <b>33189</b>	Receive, handle and store joinery materials <b>Order, receive, and store joinery materials</b>	3 <b>3</b>	3 <b>5</b>	C
2545	Demonstrate knowledge of specifications, sketches, and plans to produce glass, joinery, or joinery related items	3	3	C
28208 <b>33190</b>	Interpret specifications and plans to create sketches for glass, joinery, or joinery related items <b>Determine requirements and produce sketches to calculate the cost of joinery work</b>	4 <b>4</b>	10 <b>10</b>	C
2547	Demonstrate knowledge of contract provisions for joinery <b>Draft, present, and outline the process for completing the work of a signed contract for joinery work</b>	5	5	B
2548	Monitor production management for joinery manufacture	5	5	B

ID	Title	Level	Credit	Review Category
2549	Measure and calculate materials in the glass, joinery, or joinery related industries <b>Measure and calculate materials for joinery work</b>	3	4 5	B
2552	Set up and use fixed machinery in the joinery industry under supervision <b>Set up, operate, and undertake daily maintenance of fixed machinery for joinery work</b>	2 3	6 5	B
2553	Calculate quantities and estimate costs for joinery in a residential or light commercial building <b>Calculate quantities and estimate costs for joinery work</b>	5 4	5 10	B
2554	Apply management procedures to a small business in the joinery industry <b>Establish and maintain a work programme and complete office procedures for a joinery business</b>	5	5	B
2557	Use adhesives and sealants in the joinery industry <b>Use adhesives and sealants for joinery work</b>	3 4	2 5	B
8609	Demonstrate knowledge of compressed air systems used in a joinery workplace <b>Describe compressed air systems used for joinery work</b>	3	2	B
21811	Demonstrate knowledge of the operation of CNC machines to produce glass, joinery or joinery related items <b>Describe the operation of a computer numerical control machine for joinery work</b>	3	2	B
28205	Apply codes of practice and industry standards to the production of glass, joinery, or joinery related items	4	10	B
28206	Demonstrate knowledge of materials and methods used with glass, joinery, or joinery related items <b>Describe the materials, components, and methods used for joinery work</b>	3 4	5	B
28207	Remedy defects in joinery items	3	3 5	B
28209	Set up, operate, and maintain sanding machines used to produce basic joinery items <b>Set up, operate, and undertake daily maintenance on sanding machines for joinery work</b>	3	6 5	B
28210	Set up, operate, and maintain planing machines used to produce basic joinery items <b>Set up, operate, and undertake routine maintenance on planers for joinery work</b>	3 4	6 5	B
28211	Set up, operate, and maintain fixed and moveable saws used to produce basic joinery items <b>Set up, operate, and undertake routine maintenance on fixed and moveable saws for joinery work</b>	3 4	6 5	B

ID	Title	Level	Credit	Review Category
28212	Set up, operate, and maintain shaping machines to produce joinery items <b>Set up, operate, and undertake routine maintenance on a shaping machine for joinery work</b>	4	8 <b>10</b>	B
28213	Calculate and order materials and select work methods to produce glass, joinery, or joinery related items <b>Order materials and develop work schedules for joinery work</b>	4	6 <b>5</b>	B
28225	Set and operate computer numerical control (CNC) machinery used to produce joinery items <b>Set and operate computer numerical control (CNC) machinery used to produce joinery work</b>	4	10	B
28226	Work safely in the glass, joinery, or joinery related industries <b>Prepare a workspace and use safe practices for joinery work</b>	3	8	B
28227	Use tools and equipment with glass, joinery, or joinery related items <b>Select, set up, use, and maintain tools and equipment for joinery work</b>	3	5 <b>10</b>	B
28228	Work in a team to achieve designated tasks in the glass, joinery, or joinery related industries <b>Work in a team to complete joinery tasks</b>	3	5	B
33191	<b>Demonstrate professional standards and lead and co-ordinate joinery work</b>	4	15	New
33192	<b>Set up, operate and undertake routine maintenance on a wide belt sander for joinery work</b>	4	10	New
33193	<b>Describe sustainable practices and the benefits of sustainable outcomes for joinery work</b>	4	15	New

Manufacturing > Joinery > Joinery Operational Skills

ID	Title	Level	Credit	Review Category
28214	Set up, operate, and maintain specialist machinery used for the production of joinery cabinetry items <b>Set up, operate, and undertake routine maintenance on machinery for cabinetry work</b>	4	20	B
28215	Manufacture and assemble joinery cabinetry items for use in residential and commercial buildings <b>Manufacture and assemble cabinetry</b>	4	30	B
28216	Manufacture special fitments to produce complex joinery items <b>Manufacture special fitments for joinery work</b>	4	30	B
28217	Set up, operate, and maintain specialist machinery used for the production of timber doors and windows <b>Set up, operate, and undertake routine maintenance on a mortiser and a tenoner for joinery work</b>	4	12 <b>15</b>	B
28218	Manufacture doors and windows	4	40	B
28219	Install hardware on doors and windows	4	10 <b>15</b>	B

ID	Title	Level	Credit	Review Category
28220	Manufacture timber stairs for use in residential and commercial buildings <b>Manufacture stairs and describe the requirements for installing stairs</b>	4	25 <b>35</b>	B
28221	Manufacture timber geometric stairs for residential and commercial buildings <b>Describe the procedures and process and complete a set-out for the manufacture of timber geometric stairs</b>	4	25 <b>20</b>	B
28222	Set up, operate, and maintain specialist machines used for the production of high-pressure laminate benchtops <b>Set up and operate specialist machines used to produce high-pressure laminate benchtops</b>	4	20	B
28223	Manufacture high pressure laminate benchtops for use in residential and commercial buildings <b>Manufacture high pressure laminate benchtops</b>	4	30 <b>35</b>	B
28224	Install joinery cabinetry in residential and commercial buildings <b>Install cabinetry</b>	4	10 <b>15</b>	B