

**FIELDS MANUFACTURING AND PLANNING AND CONSTRUCTION****Review of Core Construction and Joinery unit standards**

This review report was first published in January 2009 and republished in March 2009 following the correction of information related to the extension of accreditation for unit standard 2550.

<b>Subfield</b>	<b>Domain</b>	<b>Id</b>
Construction Trades	Core Construction	2543, 2548-2550, 2552, 2554-2557
Joinery	Cabinetry	2527-2530, 2539
	Door and Window Joinery	2518-2521, 2523-2526, 2542
	Joinery Machining	8558, 8604-8613, 10173, 10174, 17123-17138, 21812
	Stairs and Other Joinery Trade Skills	2522, 2531-2536, 2540, 2541, 2544, 2545, 2547, 2553, 15755, 15756

The Joinery Industry Training Organisation has completed the review of the unit standards listed above.

**Date new version of report published****March 2009****Date new versions published****January 2009****Planned review date****December 2013****Summary of review and consultation process**

The Joinery Advisory Group met on the 7-8<sup>th</sup> February 2008 to look at the joinery standards and consider the feedback generated through the assessment and moderation process. The feedback process identified seven current standards that were no longer fit for purpose and that would be designated as expiring. Areas where there were gaps were also identified and five new standards were developed. Changes to the standards were identified and endorsed in May after the amended standards had been circulated to all stakeholders for comment.

**Main changes resulting from the review**

- Changes in domain from *Laminate Fabrication* to *Joinery Machining and Cabinetry*, and *Core Construction* to *Stairs and Other Joinery Trade Skills*.
- Changes to titles, levels and credits.
- Changes to elements, performance criteria and ranges for clarity and consistency.
- Changes to special notes.
- Seven standards have been designated as expiring. These are 8605, 8611, 8612, 8613, and 17124 in the *Joinery Machinery* domain, and 2534 and 15755 in the *Stairs and Other Joinery Trade Skills* domain.
- Five new standards have been developed, three of which are in the *Joinery Machining* domain, one in the *Stairs and Other Joinery Trade Skills* domain, and one in the *Cabinetry* domain.

## Unit standards categorised as category D expire at the end of December 2010.

### Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification	Level	Nature of accreditation	Classification or Id	Level
Domain	Core Construction	2	Standard	2543, 2550, 2552, 2556	2
		3	Standard	2549, 2555, 2557	3
		4	Standard	2548	5
		5	Standard	2554	5
	Laminate Fabrication	3	Standard	21811	2
			Standard	2537	3

### Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

<b>Affected</b>	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
<b>Not materially affected</b>	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Joinery ITO qualifications are affected by the outcome of this review and will be reviewed in 2008. Unit standards in **bold** have generated the *Affected* status.

Qualification title	Classification or standard in the qualification
National Certificate in Joinery (Introduction) [Ref: 0385]	<b>2543, 2545</b> , 2549, 2550, 2552, 2555, 2556, 2557, 17138
National Certificate in Joinery (Craftsperson) [Ref: 0386]	2518, <b>2522, 2525</b> , 2526, 2529, <b>2531, 2533, 2534, 2535</b> , 2537, <b>2540</b> , 2541, <b>2548</b> , 2553, 2554, 8558, <b>8605</b> , 8606, <b>8608, 8609</b> , <b>10173, 15755, 17124</b> , 17125, <b>17128</b> , 17130, <b>17137, 21811</b>
National Certificate in Joinery with strands in Cabinetry, Exterior Joinery, and Stairs [Ref: 0387]	2518, <b>2522, 2525</b> , 2526, 2529, <b>2531, 2533, 2534, 2535</b> , 2537, <b>2540, 2548</b> , 8558, <b>8605</b> , 8606, <b>15755, 17124</b> , 17125, <b>17128</b> , 17130, <b>17137, 21811</b>
National Certificate in Joinery (Aluminium Fabrication) [Ref: 389]	<b>2543, 2545</b> , 2549, 2550, 2552, 2555, 2556, 2557
National Certificate in Joinery (Laminate Fabrication) [Ref: 0390]	2537, <b>2543, 2545</b> , 2549, 2550, 2552, 2555, 2556, 2557, <b>10173</b> , 17138, <b>21811</b>
National Certificate in Joinery (Component Machining) [Ref: 0730]	<b>2548</b> , 8558, <b>8605, 8608, 8609</b> , <b>10173, 17124</b> , 17125, <b>17128</b> , 17130, <b>17137</b>
National Certificate in Glazing (Level 4) [Ref:1104]	<b>15755</b>
National Certificate in Design (Kitchen Design) (Level 3) [Ref:1300]	<b>2543, 2545</b> , 2549

The following qualifications are also affected by the outcome of this review. The standard setting bodies (SSBs) have been advised that they require revision.

Qualification title	Classification or standard in the qualification	SSB Name
National Certificate in Demolition (Introductory Skills) (Level 2) [Ref: 1085]	<b>2543</b>	Infratrain New Zealand
National Certificate in Furniture Finishing (Level 2) [Ref: 790]	<b>15755</b>	Forest Industries Training and Education Council – Furniture
National Certificate in Furniture Finishing (Level 3) [Ref: 1180]	2526, <b>2540, 8609, 15755</b>	
National Certificate in Furniture Finishing (Level 4) [Ref: 1181]	2526, <b>2540, 8609</b>	
National Certificate in Parks and Recreation (Level 3) with strands in Local Authority Park Ranger, and Parks Contractor [Ref: 1268]	2556	Sport, Fitness and Recreation Industry Training Organisation
National Certificate in Refractory Installation [Ref: 1355]	<b>2543, 2549</b>	Creative Trades Industry Training Organisation
National Certificate in Brick and Block Laying [Ref: 1356]	<b>2543, 2549, 2550</b>	
National Certificate in Fibre Cement Linings (Level 4) with strands in Fixing, and Finishing [Ref: 0272]	2550	Building and Construction Industry Training Organisation
National Certificate in Fibrous Plaster (Installation) (Level 4) with an optional strand in Specialist Systems [Ref: 0273]	2550	
National Certificate in Fibrous Plaster (Manufacture) (Level 4) with optional strands in Panels and Tiles, and Specialist Models and Mould Making [Ref: 0274]	2550	
National Certificate in Plaster Board (Level 4) with strands in Fixing, and Finishing, and with an optional strand in Specialist [Ref: 0275]	2550	
National Certificate in Solid Plastering (Level 4) with an optional strand in Specialist Mouldings and Decorative Work [Ref: 0725]	2550	
National Certificate in Floor and Wall Tiling (Introductory Skills) (Level 2) [Ref: 1182]	2550	
National Certificate in Specialist Interiors (Installation) (Level 3) with strands in Suspended Ceilings, and Proprietary Partitions, and with an optional strand in Access Floors	2550	

National Certificate in Specialist Interiors (Installation) (Level 3) with strands in Suspended Ceilings, and Proprietary Partitions, and with an optional strand in Access Floors	2550	NZ Extractive Industries Training Organisation
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### Review Categories and changes to 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

### Subfield Construction Trades Joinery

Id	Domain	Title	Level	Credit	Review Category
2543	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Carry out safe working practices in workplaces <b>Carry out safe working practices in joinery workplaces</b>	2	4 <b>8</b>	B
2548	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Outline management procedures <b>Monitor production management for joinery manufacture</b>	4 <b>5</b>	4 <b>8</b>	B
2549	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Measure and calculate <b>Measure and calculate in the joinery industry</b>	3	4	B
2550	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Use hand tools <b>Use and maintain hand tools for joinery and related trades</b>	2	6	B
2552	Core Construction <b>Joinery Machining</b>	Use fixed machinery, and describe maintenance requirements for fixed machinery in core construction <b>Set up and use fixed machinery in the joinery industry under supervision</b>	2	6	B

<b>Id</b>	<b>Domain</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
2554	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Demonstrate knowledge of and apply management procedures for small businesses <b>Demonstrate knowledge of and apply management procedures to small businesses in the joinery industry</b>	5	6	B
2555	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Use mechanical fixings and methods of attachment <b>Use mechanical fixings and methods of attachment in the joinery industry</b>	3	4	B
2556	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Demonstrate knowledge of and select timber <b>Demonstrate knowledge of timber in the joinery industry</b>	2	6	B
2557	Core Construction <b>Stairs and Other Joinery Trade Skills</b>	Use adhesives and sealants <b>Use adhesives and sealants in the joinery industry</b>	3	3	B

## Subfield Joinery

<b>Id</b>	<b>Domain</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
2537	Laminate Fabrication <b>Cabinetry</b>	Manufacture laminate flat bench and dresser tops, and panels <b>Manufacture and fix flat pressings</b>	3	10	B
21811	Laminate Fabrication  <b>Joinery Machining</b>	Describe the operation of a computer numerical controlled (CNC) machine for laminate fabrication <b>Describe the operation of a Computer Numerical Controlled (CNC) machine for machining joinery items</b>	3  2	4	B

Subfield Joinery  
Domain Cabinetry

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
2527	Manufacture cupboard carcasses	3	6	B
2528	Manufacture cupboard doors and drawers	3	5	B

Id	Title	Level	Credit	Review Category
2529	Manufacture timber flat bench and dresser tops <b>Manufacture and fix flat timber and flat processed tops</b>	3	4	B
2530	Manufacture special fitments	4	6	B
2539	Manufacture and install timber and sheet panelling	4	7	B
<b>25159</b>	<b>Describe the installation requirements of cabinetry on-site</b>	<b>3</b>	<b>2</b>	<b>New</b>

## Domain Door and Window Joinery

Id	Title	Level	Credit	Review Category
2518	Manufacture ledged, braced, and framed timber doors <b>Manufacture timber doors</b>	4	12	B
2519	Manufacture flush doors	4	9	B
2520	Manufacture exterior and interior door frames	4	10	B
2521	Install door hardware	4	6	B
2523	Manufacture casement windows	3	8	B
2524	Manufacture special windows	4	8	B
2525	Manufacture shaped windows	5	10 <b>15</b>	B
2526	Install window hardware <b>Order and install window hardware</b>	4	4	B
2542	Manufacture timber gates	3	4	B

## Domain Joinery Machining

Id	Title	Level	Credit	Review Category
8558	Operate spindle moulder <b>Operate a spindle moulder for joinery</b>	4	12	B
8604	Provide routine maintenance to joinery <b>Demonstrate knowledge of routine maintenance of joinery machinery</b>	3 2	5 4	B
8605	Provide comprehensive maintenance to joinery machinery	5	7	D
8606	Set up and operate presses and formers for curved work <b>Set up and operate presses and formers for curved work in joinery</b>	4	10	B
8607	Freehand grind and profile knives for joinery	4	5	B
8608	Grind, profile, joint, and balance knives for joinery <b>Grind, profile, and balance knives for joinery</b>	5	15 12	B
8609	Maintain compressed air systems in a joinery factory <b>Demonstrate knowledge of compressed air systems in a joinery factory</b>	4 3	4	B
8610	Prepare and operate specialist shaping machines for joinery	4	10	B

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
8611	Prepare complex windows for assembly	4	6	D
8612	Prepare shaped windows for assembly	5	10	D
8613	Prepare for assembly of timber geometrical stairs	5	20	D
10173	Operate and maintain fixed joinery machinery for laminate fabrication <b>Operate and maintain fixed joinery machinery for laminated fabrication</b>	4	6 4	B
10174	Demonstrate knowledge of aluminium as used in joinery	3	6	B
17123	Operate and maintain a thicknesser in joinery work	3	2	B
17124	Operate and maintain a surface planer for joinery shaping work	4	4	D
17125	Operate and maintain a radial arm saw in joinery work <b>Operate and maintain a fixed radial arm saw in joinery work</b>	3	3	B
17126	Operate and maintain a dimension saw in joinery work	3	3	B
17127	Operate and maintain a rip saw in joinery work	3	2	B
17128	Operate and maintain a spindle moulder in joinery work	3	4 6	B
17129	Operate and maintain an edge bander in joinery work	3	2	B
17130	Operate and maintain an edge trimmer in joinery work <b>Operate and maintain a joinery edge trimmer</b>	3	2	B
17131	Operate and maintain a hinging machine in joinery work	3	2	B
17132	Operate and maintain a dovetailer in joinery work	3	2	B
17133	Operate and maintain a mortiser in joinery work	4	4	B
17134	Operate and maintain a tenoner in joinery work	4	6	B
17135	Operate and maintain a bandsaw in joinery work	4 3	6	B
17136	Set up, operate, and maintain a speed sander in joinery work	4	4	B
17137	Operate and maintain a surface planer in joinery work	3	2 4	B
17138	Use portable power tools in joinery work <b>Use and maintain portable power tools in joinery work</b>	3	5	B
21812	Set up, operate, and maintain narrow belt and edge sanders in joinery work	2	4	B
<b>25161</b>	<b>Set and operate a Computer Numerical Controlled (CNC) machine for joinery work</b>	<b>3</b>	<b>6</b>	<b>New</b>
<b>25162</b>	<b>Set and operate a four sider to produce moulded profile and square dressed joinery items</b>	<b>4</b>	<b>10</b>	<b>New</b>
<b>25163</b>	<b>Set and operate a multi-boring machine to produce joinery items</b>	<b>3</b>	<b>6</b>	<b>New</b>

## Domain      Stairs and Other Joinery Trade Skills

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
2522	Describe the requirements for the on-site installation of joinery items <b>Describe the requirements for the installation of exterior and interior joinery items</b>	4 3	6 4	B
2531	Demonstrate knowledge of the requirements for stair design and manufacture	4	4 8	B
2532	Manufacture timber stairs	4	12	B
2533	Manufacture timber geometric stairs	5	20 15	B
2534	Manufacture and install shop fronts	5	8	D
2535	Manufacture and install shop fixtures and fittings	5	6 15	B
2536	Manufacture glulam components	3	10	B
2540	Cut away and restore joinery items <b>Demonstrate knowledge of remedying defects in joinery items</b>	4 3	4 3	B
2541	Plan joinery workshop layouts <b>Demonstrate knowledge of a joinery workshop and plan layout</b>	5	4	B
2544	Demonstrate knowledge of ordering, receiving, handling and storing joinery materials	2	3	B
2545	Demonstrate knowledge of work documents in joinery	2	6 3	B
2547	Demonstrate knowledge of contract provisions for joinery	5	4	B
2553	Take off quantities, and estimate costs, for joinery in a residential or light commercial building <b>Calculate quantities, and estimate costs, for joinery in a residential or light commercial building</b>	5	4	B
15755	Demonstrate knowledge of the use of non-notifiable scaffolding in joinery installation	3	3	D
15756	Demonstrate knowledge of the assembly of aluminium joinery	3	2	B
<b>25160</b>	<b>Describe the installation requirements for stairs on-site</b>	<b>3</b>	<b>2</b>	<b>New</b>