

Field Manufacturing**Review and reinstatement of *Manufacturing* unit standards**

Subfield	Domain	ID
Solid Wood Manufacturing	Finger Jointing	4546, 15058
	Pole and Post Manufacturing	20026
	Saw Doctoring	652, 655, 669
	Timber Grading	141, 5848
	Timber Machining	688, 15775, 17959
	Wood Product Manufacturing Skills	4548, 18963, 18964-18968, 20771, 24607
Wood Fibre Manufacturing	Composite Wood Panel Manufacturing	21475
Wood Handling and Distribution	Timber Yarding	5703, 8005
	Wood Preparation	21497
Wood Manufacturing - Generic Skills	Wood Manufacturing Foundation Skills	162, 16244, 17970, 19794
	Wood Panel Manufacturing Skills	700

Competenz has completed the review and reinstatement of the unit standards listed above. The standards in *italics* have been reinstated.

Date new versions published

March 2014

Planned review date

December 2018

Summary

This review was prompted by the Targeted Review of Qualifications for Forestry. Industry subject matter experts were consulted on the changes made to the unit standards, including the amendments to levels and credits. The changes were made to better reflect the requirements of the outcomes listed in the new qualifications.

The review did not include other standards within these domains. These will be reviewed later when resources and time are available for their review.

Unit standards 18963 and 21497 were designated expiring in April 2011 with the last date for assessment set at 31 December 2014. A decision was made to reinstate the standards because they were identified for inclusion in industry training programmes developed to meet the outcomes of the new qualifications. Subsequent to the decision to reinstate, standard 21497 was reviewed in order to ensure its currency and suitability for industry requirements.

During the review, industry identified a gap in knowledge and application of skills in relation to setting up a finger-jointer for wood product manufacturing. Following extensive consultation and consideration of feedback from industry experts and users of the

standards, standard 28115 was developed.

The Sector Advisory Group has endorsed the changes made to the standards, the reinstatement of standards 18963 and 21497, and the development of standard 28115.

Main changes

- Explanatory notes have been updated for consistency with other standards in these domains and to ensure the currency of references.
- Evidence requirements have been updated to align with amendments to the explanatory notes.
- Standard 141 has been replaced by new standards, 28116 and 28117, that separate the operation from the monitoring of the mechanical stress grading machine. This is because operating and monitoring for this type of machine are undertaken by different role-holders.
- New evidence requirements have been added to standards 162, 16244, and 18964; and removed from standard 18967.
- An outcome has been removed from standard 18964 and an outcome has been added to standard 15775.
- Levels have been increased or decreased for eleven standards to ensure best alignment with the NZQA level descriptors.
- The credits for two standards have been increased to ensure they reflect the time: spent learning; taken to practise the required outcomes so that performance is repeatable and to the required standard; to gather and provide evidence for assessment purposes; and for assessment to take place in the specified contexts.
- The titles of five standards have been amended.
- The entry information has been removed from, or updated in, six standards to ensure they are fit for purpose.
- Standard 20026 has been designated expiring because it is no longer needed by industry.
- Expiring standard 18963 has been reinstated.
- Expiring standard 21497 has been reinstated, with minor changes to wording of evidence requirements.
- New standard 28115 has been listed.
- A last date for assessment of superseded versions has been specified. Results will not be accepted where the assessment date is after the last date for assessment of the superseded versions of these standards.

Category C and D unit standards will expire at the end of December 2015

The last date for assessment of superseded versions of Category B unit standards is at the end of December 2015

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification	Level	Nature of consent	ID	Level
Subfield	Solid Wood Manufacturing	3	Standards	652, 655, 688, 28117	4

Current consent for			Consent extended to		
Nature of consent	Classification	Level	Nature of consent	ID	Level
Subfield	Wood Fibre Manufacturing	3	Standard	21475	4
Subfield	Wood Manufacturing - Generic Skills	2	Standard	19794	3
Domain	Timber Grading	3	Standard	28117	4
Domain	Wood Manufacturing Foundation Skills	2	Standard	19794	3
Standard	141	4	Standards	28116	3
				28117	4

Impact on registered qualifications

Key to type of impact	
Affected	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
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Competenz qualifications are impacted by the outcome of this review. These qualifications are part of the current sector review of Forestry qualifications that began in 2012. The standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	Classification or ID
0813	National Certificate in Timber Machining (Level 4)	669
1307	National Certificate in Solid Wood Manufacturing (Advanced) with strands in Saw Doctoring, Sawmilling, Timber Drying, Timber Grading, and Timber Treatment	141, 652, 5848, 17970
1308	National Certificate in Wood Handling and Distribution (Level 3) with strands in Log Yard and Wood Preparation, and Timber Yarding and Despatch	5703, 19794, 24607
1309	National Certificate in Wood Fibre Manufacturing (Wood Panels) (Level 3) with strands in Composite Panel Preparation, Composite Panel Forming and Pressing, Composite Panel Finishing, Overlay Bonding Operations, Laminated Veneer Lumber (LVL) and Plywood Operations, and Veneer Preparation	700, 19794, 21475
1310	National Certificate in Wood Fibre Manufacturing (Wood Panels) with strands in Composite Panel Manufacturing, Overlay Bonding, and Laminated Veneer Lumber (LVL) and Plywood Manufacturing	17970
1311	National Certificate in Finger Jointing (Level 4)	669
1690	National Certificate in Solid Wood Manufacturing (Level 2) with strands in Defecting; Finger Jointing and Laminating; Pole, Post and Pile; Saw Doctoring Principles; Sawmilling; Timber Drying and Treatment; and Timber Machining	669, 4546, 8005, 24607

1693	National Certificate in Solid Wood Manufacturing (Level 3) with strands in Engineered Wood Product Operations; Planer Operations; Pole, Post and Pile Operations; Saw Doctoring Operations; Sawmilling Operations; Timber Drying Operations; Timber Grading; and Timber Treatment Operations	655, 4546, 15058, 19794, 20026
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Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

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

Manufacturing > Solid Wood Manufacturing > Finger Jointing

ID	Title	Level	Credit	Review Category
4546	Feed and tail out finger jointer	3	5 6	B
15058	Test finger jointed product in solid wood manufacturing	4 3	10	B
28115	Set up finger jointer for wood product manufacturing	3	8	New

Manufacturing > Solid Wood Manufacturing > Pole and Post Manufacturing

ID	Title	Level	Credit	Review Category
20026	Conduct stress testing of wooden poles and piles	4	5	D

Manufacturing > Solid Wood Manufacturing > Saw Doctoring

ID	Title	Level	Credit	Review Category
652	Weld wide bandsaws	3 4	15	B
655	Swage and shape a saw	3 4	10	B
669	Demonstrate knowledge of grinding for saw doctoring, timber machining and finger jointing Demonstrate knowledge of grinding wheels and fluids	2	5	B

Manufacturing > Solid Wood Manufacturing > Timber Grading

ID	Title	Level	Credit	Review Category
141	Operate a mechanical stress grading machine to grade timber	4	20	C
28116	Operate a mechanical stress grading machine to grade timber	3	10	
28117	Monitor performance of a mechanical stress grading machine	4	10	
5848	Audit timber grading operations	5 4	10	B

Manufacturing > Solid Wood Manufacturing > Timber Machining

ID	Title	Level	Credit	Review Category
688	Make profile cutter templates	3 4	15	B
15775	Inspect and maintain a wood forming machine	3	15	B
17959	Apply calculations for operating and maintaining timber machining equipment Apply calculations for operating and maintaining wood forming machines	4	10	B

Manufacturing > Solid Wood Manufacturing > Wood Product Manufacturing Skills

ID	Title	Level	Credit	Review Category
4548	Laminate straight timber for wood product manufacturing	3	8	B
18963	Manually assemble wood packaging products	2	3	B
18964	Carry out automated assembly of wood packaging products	3	5	B
18965	Repair and maintain wood packaging products Repair and/or maintain wood packaging products	3	5	B
18966	Construct wooden jigs for wood packaging products	3	3	B
18967	Use and maintain portable nail or staple guns in the manufacture of wood products	2	3	B
18968	Paint wood products using conventional spray techniques	2	3	B
20771	Laminate curved products for wood product manufacturing	4	10	B
24607	Wrap wood products manually	3 2	3	B

Manufacturing > Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

ID	Title	Level	Credit	Review Category
21475	Explain production processes used in composite wood panel manufacture	3 4	10	B

Manufacturing > Wood Handling and Distribution > Timber Yarding

ID	Title	Level	Credit	Review Category
5703	Inspect export forest produce for insects and fungal infection as a site inspector	4 3	8	B
8005	Operate a mechanical timber stacking system	3 2	5	B

Manufacturing > Wood Handling and Distribution > Wood Preparation

ID	Title	Level	Credit	Review Category
21497	Describe wood chip and wood fibre material quality requirements Describe wood chip and/or wood fibre material quality requirements	2	3	B

Manufacturing > Wood Manufacturing - Generic Skills > Wood Manufacturing Foundation Skills

ID	Title	Level	Credit	Review Category
162	Demonstrate knowledge of the principles of wood drying	2	5	B
19794	Demonstrate knowledge of wood preservation	2	5	B
17970	Explain wood manufacturing cost factors influencing profitability and sustainability Apply wood manufacturing cost factors	4	10 15	B
19794	Demonstrate knowledge of business basics in the wood manufacturing industry	2 3	5	B

Manufacturing > Wood Manufacturing - Generic Skills > Wood Panel Manufacturing Skills

ID	Title	Level	Credit	Review Category
700	Grade wood panels visually	4 3	5	B