

## **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**

<b>Level</b>	<b>3</b>
<b>Credits</b>	<b>64-79</b>

This qualification has been **reviewed**. The last date to meet the requirements is **31 December 2018**.

### **Transition Arrangements**

This qualification has been reviewed and replaced by the New Zealand Certificate in Wood Panel Manufacturing (Level 3) with strands in Composite Panel Finishing; Laminated Veneer Lumber (LVL) and Plywood; Overlay Bonding; and Veneer Preparation [Ref: 2406] and the New Zealand Certificate in Composite Wood Panel Manufacturing (Level 4) [Ref: 2407].

People currently working towards Ref: 1309 may complete the qualification by 31 December 2018 or transfer their results to the replacement New Zealand qualifications.

The last date for enrolments into Ref: 1309 is 31 December 2015. The last date for assessments to take place for this qualification is 31 December 2018.

People wishing to complete Ref: 1309 with the Laminated Veneer Lumber (LVL) and Plywood Operations Strand will need to gain credit for expiring standard 20768 by 30 December 2015 when it expires.

It is recommended that candidates currently enrolled in the replaced qualification that will be unable to complete the qualification by the 31 December 2018 transfer to the New Zealand Certificates listed above.

For detailed information see [Review Summaries](#) on the NZQA website.

It is anticipated that no existing candidates will be disadvantaged by these transition arrangements. However, anyone who feels that they have been disadvantaged may appeal to Competenz at the address below. Appeals will be considered on a case-by-case basis.

## NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	July 2007	December 2012
Review	2	May 2009	December 2013
Review	3	July 2010	December 2013
Review	4	July 2011	December 2018
Review	5	October 2014	December 2018

### Standard Setting Body

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Reviewed

## **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**

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### **Purpose**

This qualification recognises the skills and knowledge required of operators in the wood panels industries. The Core sections of this qualification ensure that operators understand organisational structures and business terminology, have knowledge of process and environmental interrelationships and process control techniques, can enhance workplace safety and performance, and can participate in the investigation of production issues.

The Core sections of this qualification share a significant number of credits with the National Certificate in Wood Handling and Distribution (Level 3) with strands in Log Yard and Wood Preparation, and Timber Yarding and Despatch [Ref: 1308]. The Core Compulsory section ensures that operators understand environmental issues, measurement, efficiency, and productivity improvement required for all employees in wood manufacturing and wood handling operations. The Core Elective section provides operators with options in knowledge of health and safety requirements and assessing for workplace hazards. Holders of this qualification will be working alongside holders of the qualification listed above and will need these common core competencies.

The qualification's strands recognise the competencies required to work in a range of operational roles in:

- the preparation, manufacturing, and finishing of composite wood panels
- the preparation, manufacturing, and finishing of laminated veneer lumber and plywood
- the preparation and operation of overlay bonding plant
- the preparation and manufacturing of veneer.

This qualification follows on from the National Certificate in Wood Manufacturing Foundation Skills (Wood Panels) (Level 2) [Ref: 1691].

Graduates of this qualification may pathway onto the National Certificate in Wood Fibre Manufacturing (Wood Panels) (Level 4) with strands in Composite Panel Manufacturing, Overlay Bonding, and Laminated Veneer Lumber (LVL) and Plywood Manufacturing [Ref: 1310].

## Replacement Information

This qualification replaced the National Certificate in Pulp and Paper Manufacturing (Level 3) [Ref: 0238]; and part of the National Certificate in Wood Panels Manufacturing (Level 4) [Ref: 0254].

## Special Notes

It is recommended that before commencing this qualification, candidates hold the National Certificate in Wood Manufacturing Foundation Skills (Wood Panels) (Level 2) [Ref: 1691].

It is also recommended that candidates hold a current first aid certificate or are credited with the following first aid standards – Unit 26551, *Provide first aid for life threatening conditions*; Unit 26552, *Demonstrate knowledge of common first aid conditions and how to respond to them*.

## Credit Range

	Core Compulsory	Core Elective
Level 2 credits	13	0-3
Level 3 credits	18	0-4
Minimum totals	31	3

	Composite Panel Preparation Strand		Composite Panel Forming and Pressing Strand	
	C	E	C	E
Level 2 credits	-	-	-	-
Level 3 credits	-	0-5	10	-
Level 4 credits	10	20-25	-	25
Minimum totals	10	25	10	25
Qualification total with strand	69		69	

	Composite Panel Finishing Strand		Overland Bonding Operations Strand	
	C	E	C	E
Level 2 credits	-	0-5	-	-
Level 3 credits	-	0-21	-	8-18
Level 4 credits	5	0-25	15	0-10
Minimum totals	5	25	15	18
Qualification total with strand	64		67	

	Laminated Veneer Lumber (LVL) and Plywood Operations Strand		Veneer Preparation Strand	
	C	E	C	E
Level 2 credits	-	-	-	-
Level 3 credits	20	0-21	10	0-25
Level 4 credits	-	4-25	-	0-25
Minimum totals	20	25	10	25
Qualification total with strand	79		69	

## Requirements for Award of Qualification

### Award of NZQF National Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

## Summary of Requirements

- Core Compulsory standards
- Core Elective – A minimum of 3 credits as specified

One of the following strands is required

- Composite Panel Preparation Strand
- Composite Panel Forming and Pressing Strand
- Composite Panel Finishing Strand
- Overlay Bonding Operations Strand
- Laminated Veneer Lumber (LVL) and Plywood Operations Strand
- Veneer Preparation Strand

## Detailed Requirements

### Core Compulsory

The following standards are required

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

ID	Title	Level	Credit
159	Demonstrate knowledge of environmental issues in wood manufacturing industries	2	5

ID	Title	Level	Credit
19794	Demonstrate knowledge of business basics in the wood manufacturing industry	2	5
22969	Take and record measurements and make calculations in wood manufacturing	2	3
22972	Describe techniques used on a wood manufacturing worksite to monitor and control product quality	3	8
22974	Participate, with technical support, in the investigation of wood manufacturing production issues	3	10

### Core Elective

A minimum of 3 credits

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4

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

ID	Title	Level	Credit
5634	Demonstrate knowledge of workplace health and safety in the wood manufacturing industries	2	3

### Composite Panel Preparation Strand

Meet the requirements of all of the following sets

- Composite Panel Preparation Strand Compulsory
- Composite Panel Preparation Strand Elective

### Composite Panel Preparation Strand Compulsory

The following standard is required

Manufacturing > Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

ID	Title	Level	Credit
21476	Explain preparation of materials for composite wood panel manufacture	4	10

### Composite Panel Preparation Strand Elective

A minimum of 25 credits

Manufacturing > Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

ID	Title	Level	Credit
694	Dry wood furnish for composite panels manufacture	4	5
719	Operate and monitor the performance of a chip washer for wood chip recovery	4	5

ID	Title	Level	Credit
720	Refine wood chips and glue fibre	4	20
723	Produce wood flake for particle board manufacture	4	10
724	Prepare wood furnish for particle board manufacture	4	5

Manufacturing > Wood Handling and Distribution > Wood Preparation

ID	Title	Level	Credit
3541	Reclaim and convey wood chips	3	5

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

ID	Title	Level	Credit
703	Provide thermal energy for wood panels manufacturing	4	20

**Composite Panel Forming and Pressing Strand**

Meet the requirements of all of the following sets

- Composite Panel Forming and Pressing Strand Compulsory
- Composite Panel Forming and Pressing Strand Elective

**Composite Panel Forming and Pressing Strand Compulsory**

The following standard is required

Manufacturing > Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

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

**Composite Panel Forming and Pressing Strand Elective**

A minimum of 25 credits

Manufacturing > Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

ID	Title	Level	Credit
697	Press formed wood furnish into composite panels	4	20

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

ID	Title	Level	Credit
695	Apply bonding agents for wood panel manufacture	4	5
696	Form wood furnish for pressing into wood panels	4	10

**Composite Panel Finishing Strand**

Meet the requirements of all of the following sets

- Composite Panel Finishing Strand Compulsory
- Composite Panel Finishing Strand Elective

**Composite Panel Finishing Strand Compulsory**

The following standard is required

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

ID	Title	Level	Credit
700	Grade wood panels visually	4	5

**Composite Panel Finishing Strand Elective**

A minimum of 25 credits

Manufacturing > Solid Wood Manufacturing > Sawmilling

ID	Title	Level	Credit
20751	Operate cross cut saw centre	3	5

Manufacturing > Solid Wood Manufacturing > Wood Product Manufacturing Skills

ID	Title	Level	Credit
4551	Set up and operate a multi-rip machine centre in wood product manufacturing	3	5
17203	Sand wood products for wood product manufacturing	3	3

Manufacturing > Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

ID	Title	Level	Credit
16245	Edge-finish particle board	4	5

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

ID	Title	Level	Credit
22975	Maintain and take care of process consumables in a wood manufacturing operation	2	5
22988	Handle and store manufactured wood products for further processing	3	8

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

ID	Title	Level	Credit
698	Saw wood panels using a panel saw system	4	20
699	Sand wood panels	4	20



### Overlay Bonding Operations Strand

Meet the requirements of all of the following sets

- Overlay Bonding Operations Strand Compulsory
- Overlay Bonding Operations Strand Elective

### Overlay Bonding Operations Strand Compulsory

The following standard is required

Manufacturing > Solid Wood Manufacturing > Overlay Bonding

ID	Title	Level	Credit
18761	Assemble raw materials for production of overlay bonding products from a production schedule	4	15

### Overlay Bonding Operations Strand Elective

A minimum of 18 credits

Manufacturing > Solid Wood Manufacturing > Wood Product Manufacturing Skills

ID	Title	Level	Credit
20768	Explain adhesive use in wood product manufacturing	3	10
21764	Carry out procedures for gluing in wood product manufacturing	3	8

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

ID	Title	Level	Credit
695	Apply bonding agents for wood panel manufacture	4	5
700	Grade wood panels visually	4	5
702	Stack and pack wood panels	3	5
23438	Change press caul plates in wood panel manufacturing	3	3

Service Sector > Lifting Equipment > Powered Industrial Lift Trucks

ID	Title	Level	Credit
10851	Operate a powered industrial lift truck (forklift)	3	7

### Laminated Veneer Lumber (LVL) and Plywood Operations Strand

Meet the requirements of all of the following sets

- Laminated Veneer Lumber (LVL) and Plywood Operations Strand Compulsory
- Laminated Veneer Lumber (LVL) and Plywood Operations Strand Elective

**Laminated Veneer Lumber (LVL) and Plywood Operations Strand Compulsory**

The following standards are required

Manufacturing > Solid Wood Manufacturing > Laminated Veneer Lumber and Plywood Manufacturing

ID	Title	Level	Credit
21479	Explain technology and processes for laminated veneer lumber and plywood manufacture	3	10

Manufacturing > Solid Wood Manufacturing > Wood Product Manufacturing Skills

ID	Title	Level	Credit
20768	Explain adhesive use in wood product manufacturing	3	10

**Laminated Veneer Lumber (LVL) and Plywood Operations Strand Elective**

A minimum of 25 credits

Manufacturing > Solid Wood Manufacturing > Laminated Veneer Lumber and Plywood Manufacturing

ID	Title	Level	Credit
713	Grade dry veneers for laminated veneer lumber and plywood manufacture	3	5
727	Grade laminated veneer lumber and plywood panels	4	10
5147	Scarf veneers for laminated veneer lumber and plywood manufacture	4	10
21481	Lay up veneer for laminated veneer lumber and plywood manufacture	4	10

Manufacturing > Solid Wood Manufacturing > Sawmilling

ID	Title	Level	Credit
20751	Operate cross cut saw centre	3	5

Manufacturing > Solid Wood Manufacturing > Wood Product Manufacturing Skills

ID	Title	Level	Credit
4551	Set up and operate a multi-rip machine centre in wood product manufacturing	3	5
17203	Sand wood products for wood product manufacturing	3	3

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

ID	Title	Level	Credit
22988	Handle and store manufactured wood products for further processing	3	8

## Manufacturing &gt; Wood Manufacturing - Generic Skills &gt; Wood Panel Manufacturing Skills

ID	Title	Level	Credit
695	Apply bonding agents for wood panel manufacture	4	5
698	Saw wood panels using a panel saw system	4	20
699	Sand wood panels	4	20
700	Grade wood panels visually	4	5

**Veneer Preparation Strand**

Meet the requirements of all of the following sets

- Veneer Preparation Strand Compulsory
- Veneer Preparation Strand Elective

**Veneer Preparation Strand Compulsory**

The following standard is required

## Manufacturing &gt; Solid Wood Manufacturing &gt; Laminated Veneer Lumber and Plywood Manufacturing

ID	Title	Level	Credit
21480	Explain veneer preparation for laminated veneer lumber and plywood manufacture	3	10

**Veneer Preparation Strand Elective**

A minimum of 25 credits

## Manufacturing &gt; Energy and Chemical Plant &gt; Operation of Energy and Chemical Plant

ID	Title	Level	Credit
21460	Meet requirements of person responsible for an unattended boiler	3	8

## Manufacturing &gt; Solid Wood Manufacturing &gt; Laminated Veneer Lumber and Plywood Manufacturing

ID	Title	Level	Credit
712	Coordinate infeed of bolts for laminated veneer lumber and plywood manufacture	3	5
713	Grade dry veneers for laminated veneer lumber and plywood manufacture	3	5
715	Compose veneers for laminated veneer lumber and plywood manufacture	4	10
725	Peel logs into veneers for laminated veneer lumber and plywood manufacture	4	15
726	Clip and sort laminated veneer lumber and plywood veneers	3	5
5147	Scarf veneers for laminated veneer lumber and plywood manufacture	4	10

ID	Title	Level	Credit
19721	Grind knives for wood veneer manufacturing	3	5
19723	Condition logs for peeling for laminated veneer lumber and plywood manufacture	4	5
23158	Dry wood veneer for laminated veneer lumber and plywood manufacture	4	5

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

ID	Title	Level	Credit
700	Grade wood panels visually	4	5

## Transition Arrangements

### Version 4

Version 4 was issued following review to include the Laminated Veneer Lumber (LVL) and Plywood Operations Strand and Veneer Preparation Strand and to remove standard 22971 from the core compulsory section. The Laminated Veneer Lumber (LVL) and Plywood Operations Strand and Veneer Preparation Strands were moved from the National Certificate in Solid Wood Manufacturing (Level 3) with strands in Engineered Wood Product Operations, Planer Operations, Pole and Post Operations, Sawmilling Operations, Timber Drying Operations, Timber Grading, and Timber Treatment Operations [Ref: 1306].

#### Changes to structure and content

- The Laminated Veneer Lumber (LVL) and Plywood Operations Strand and the Veneer Preparation Strand were added to the qualification and the title was updated accordingly.
- Overall credit total for the qualification was reduced from 74-84 credits to 64-79 credits.
- Standard 22971 was removed from the Core Compulsory section.
- Standard titles, levels, and credits were updated to reflect changes made when they were reviewed.

For detailed information see Review Summaries on the NZQA website.

People working towards version 2 or 3 of this qualification may either complete the requirements for those versions or transfer their results to version 4.

The last date for entry to training programmes or courses for version 2 or 3 is September 2011.

People working towards version 1 of this qualification may either complete the requirements for that version or transfer their results to version 4.

People working towards the Laminated Veneer Lumber (LVL) and Plywood Operations and Veneer Preparation strands in the replaced National Certificate in Solid Wood Manufacturing (Level 3) [Ref: 1306] may either complete the requirements of that qualification by 31 December 2014 or transfer their results to this qualification.

People who are considering transition from version 2 or 3 to version 4 of this qualification, or to the National Certificate in Wood Fibre Manufacturing (Pulp and Paper) (Level 3) with strands in Mechanical Pulping, Pulp and Paper Dry End, and Pulp and Paper Wet End [Ref: 1572], or from the Laminated Veneer Lumber (LVL) and Plywood Operations and Veneer Preparation strands in the replaced National Certificate in Solid Wood Manufacturing (Level 3) [Ref: 1306], should contact their training provider or Competenz at the address below for further advice.

This qualification contains standards that replace or have been substituted for earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
135	20751
4550	20751

### Previous versions of the qualification

Version 3 was issued following review to include the removal of the Mechanical Pulping Operations, Pulp and Paper Dry End Operations, and Wet End Operations strands. Changes to structure and content included: the Mechanical Pulping Operations, Pulp and Paper Dry End Operations, and Wet End Operations strands were removed. The title was amended to include the descriptor Wood Panels. Expiring standards 708, 710, 7067, 7069-7072, and 17044 were removed from the qualification.

Version 2 was issued following review to include the Overlay Bonding Operations Strand, and to update the content of other strands. Changes to structure and content included: standards 3054 and 3060 were added and standard 21484 was removed from the Mechanical Pulping Operations Strand Elective. The compulsory for the Pulp and Paper Dry End Operations Strand became Elective 1 and standard 17869 was added, and the previous Elective was renamed Elective 2. Standard 17861 was added to Elective 1 of the Pulp and Paper Wet End Operations Strand, standard 21484 was added to Elective 2, and the minimum credit for Elective 2 of the strand was reduced from 30 to 20. Standard 23438 was removed from the Composite Panel Forming and Pressing Strand Elective.

Version 1 was issued to following a review of Competenz qualifications. This qualification replaced the National Certificate in Pulp and Paper Manufacturing (Level 3) [Ref: 0238]; and part of the National Certificate in Wood Panels Manufacturing (Level 4) [Ref: 0254].

## Other standard setting bodies whose standards are included in the qualification

NZ Motor Industry Training Organisation (Incorporated)  
The Skills Organisation

### Certification

This certificate will display the logos of the NZQA, the Competenz and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

### Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
429	Manufacturing > Wood Fibre Manufacturing	030304	Engineering and Related Technologies > Process and Resources Engineering > Wood Based Manufacturing

#### Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.