

## National Certificate in Timber Machining (Level 4)

<b>Level</b>	<b>4</b>
<b>Credits</b>	<b>180</b>

### Purpose

The National Certificate in Timber Machining (Level 4) [Ref: 0813] recognises the skills and knowledge required by a Timber Machinist for the development and manufacture of profile tooling used in shaping timber components, the maintenance of timber machining equipment, troubleshooting of timber machining operations, and the analysis of costs associated with timber machining operations.

The qualification reflects the technical requirements of a Timber Machinist in the solid wood manufacturing industry. As these requirements have been clearly defined all the standards in the qualification are compulsory.

This qualification follows on from the Planer Operations strand of the National Certificate in Solid Wood Manufacturing (Level 3) with strands in Engineered Wood Product Operations, Laminated Veneer Lumber (LVL) and Plywood Operations, Planer Operations, Pole and Post Operations, Saw Centre Operations, Timber Drying Operations, Timber Grading Operations, Timber Treatment Operations, Veneer Preparation, Wood Process Operations, and Wood Product Operations [Ref: 1306], and leads on to the National Certificate in Solid Wood Manufacturing (Advanced Technical Plant Operations) (Level 5) [Ref: 1312], or may lead on to the National Diploma in Wood Manufacturing (Level 5) [Ref: 1067].

### Special Notes

It is recommended that candidates hold a current first aid certificate or are credited with the first aid standards – Unit 6400, *Manage first aid in emergency situations*; Unit 6401, *Provide first aid*; and Unit 6402, *Provide resuscitation level 2*.

### Credit Range

Level 2 credits	8
Level 3 credits	73
Level 4 credits	99
Total	180

## Requirements for Award of Qualification

### Award of NQF 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 in section 7 of the New Zealand Qualifications Authority (NZQA) *Rules and Procedures* publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

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

- Compulsory standards

### Detailed Requirements

#### Compulsory

The following standards are required

#### Manufacturing > Solid Wood Manufacturing > Saw Doctoring

ID	Title	Level	Credit
669	Demonstrate knowledge of grinding for saw doctoring, timber machining and finger jointing	2	5

#### Manufacturing > Solid Wood Manufacturing > Timber Machining

ID	Title	Level	Credit
675	Set up a timber planer for dress four sides	3	20
676	Set up timber planer for profile	4	30
682	Joint profile cutters	3	5
684	Grind and hone straight cutters	3	5
685	Grind and hone straight cutters in-head	3	3
688	Make profile cutter templates	3	15
690	Make straight cutters	2	3
8009	Explain and calculate costing of timber machining operations	4	4
8010	Set cutterhead spindle positions using data from a calibrated measuring device	4	5
15775	Inspect and maintain a wood forming machine and a grinding machine	3	15

ID	Title	Level	Credit
17959	Apply calculations for operating and maintaining timber machining equipment	4	10
19719	Identify, diagnose and rectify machined product defects	4	25
23105	Develop profile, and grind and hone profile cutters in-head	4	25

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

ID	Title	Level	Credit
17862	Demonstrate knowledge of mechanical engineering systems used in wood manufacturing industries	3	10

## Transition Arrangements

Version 4 was issued to update the level of standard 17862.

Change to structure and content

- Level of standard 17862 updated (from 2 to 3).

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

People currently working towards version 3 of the qualification may either complete the requirements for that qualification by 31 December 2011, or transfer their results to version 4. The last date for entry to training programmes or courses for version 3 is December 2009.

This qualification contains standards that replace 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
687, 16242	23105

It is anticipated that no existing trainees will be disadvantaged by these transition arrangements. Any person who feels they have been disadvantaged by these transition arrangements should contact FITEC who will consider appeals on a case by case basis.

## Previous versions of the qualification

Version 3 was issued to take into account the significant changes recommended by the industry advisory panel following the development of a Planer Operations strand on the National Certificate in Solid Wood Manufacturing (Level 3) with strands [Ref: 1306]. This qualification was focussed on the technical aspects of timber machining operations.

Version 2 was issued in order to incorporate a new standard in Elective 1 and to take account of classification changes as a result of the review of Storekeeping and Warehousing standards.

Version 1 of this qualification and the National Certificate in Timber Machining (Size and Gauge) (Level 3) [Ref: 0812] replaced the National Certificate in Solid Wood Processing (Timber Machining) [Ref: 0360].

## NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	January 2001	December 2011
Revision	2	July 2003	December 2011
Review	3	July 2007	December 2011
Revision	4	May 2009	N/A

## Standard Setting Body

Forest Industries Training and Education Council (FITEC)  
 PO Box 137067  
 Parnell  
 Auckland 1151

Telephone 09 356 7250  
 Email [info@fitec.org.nz](mailto:info@fitec.org.nz)

## Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2014
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## Certification

The certificate will display the logos of NZQA, the Forest Industries Training and Education Council (FITEC) and the accredited organisation.

## Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
2020	Manufacturing > Solid Wood Manufacturing > Timber Machining	030111	Engineering and Related Technologies > Manufacturing, Engineering and Technology > Wood Machining and Turning

### Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.