

National Certificate in Timber Machining (Level 4)

Level	4
Credits	180

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, 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	18
Level 3 credits	63
Level 4 credits	99
Total	180

Requirements for Award of Qualification

This qualification will be awarded to people who have met the requirements of the National Certificate in Solid Wood Manufacturing (Level 3) [Ref: 1306], with the Planer Operations strand, or the qualification this replaced, the National Certificate in Timber Machining (Size and Gauge) (Level 3) [Ref: 0812], and who have met the following requirements.

- Compulsory standards

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.

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
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	2	10

Transition Arrangements

Version 3

This qualification was reviewed and issued as version 3 in July 2007 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 has been focussed on the technical aspects of timber machining operations.

Changes to structure and content

- increase in credits from 120 to 180
- the core has been increased to reflect the new focus given to this qualification and its relationship to the prerequisite qualification
- standards 669, 675, 684, and 685 have been moved from the expiring National Certificate in Timber Machining (Size and Gauge) (Level 3) [Ref: 0812]
- standards 690, 8010, and 19719 have been moved from Elective 1 to the compulsory section
- standard 23105 has replaced standards 687 and 16242 in the compulsory section
- the remainder Electives of 1 and 2 removed
- standard titles, levels and credits have been updated.

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

People currently working towards version 2 of the qualification may either complete the requirements for that qualification by 31 December 2011, or transfer their results to version 3. The last date for entry to training programmes or courses for version 2 is December 2008.

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.

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

Previous versions of the qualification

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	N/A

Standard Setting Body

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

Telephone 09 356 7250
 Email feedback@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	2012
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Certification

The certificate will display the logos of NZQA and FITEC.

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.