

|              |  |                |           |
|--------------|--|----------------|-----------|
| <b>Title</b> | <b>Manufacture pre-nailed timber wall frames in a controlled environment</b> |                |           |
| <b>Level</b> | <b>3</b>   | <b>Credits</b> | <b>20</b> |

|                |  |
|----------------|--|
| <b>Purpose</b> | <p>This unit standard is intended for people working in timber structure manufacturing.</p> <p>People credited with this standard are able to manufacture pre-nailed timber wall frames in a controlled environment to commercial standards.</p> |
|----------------|--|

|                       |                                 |
|-----------------------|---------------------------------|
| <b>Classification</b> | Construction Trades > Carpentry |
|-----------------------|---------------------------------|

|                        |          |
|------------------------|----------|
| <b>Available grade</b> | Achieved |
|------------------------|----------|

---

## Guidance Information

### 1 Assessment

This unit standard is intended to align with the *New Zealand Certificate in Timber Structure Manufacture – Specifications* and the *New Zealand Certificate in Timber Structure Manufacture (Level 3)* with strands in *Wall Frame Manufacture*, and *Roof Truss Manufacture* [Ref: 4319].

Evidence for this standard must reflect commercial standards.

Commercial standards refer to verbal and written information covering company policy, standard operating procedures and processes and job-specific instructions.

Working to commercial standards must be confirmed by a person with current expertise in the timber structure manufacturing trade.

### 2 Definitions

*Computer controlled machinery* refers to automated machinery controlled by a computer for wall frame and roof truss production.

*Controlled environment* is a manufacturing workplace within which trade skills are applied.

*Manually operated machinery* refers to non-computerised machinery and includes hand-held power operated saws and hand-held non-powered saws.

*Timber structures* are cut and assembled in a controlled environment. They may include wall frames and/or roof trusses.

*Workplace procedures* refer to the documented procedures specific to a workplace, which set out the standards and required practices of that workplace.

- 3 Legislation, standards and guidance information relevant to this standard includes the following; and any subsequent amendments and replacements:

*New Zealand Certificate in Timber Structure Manufacture – Specifications*, BCITO, October 2020, available from [www.waihanga.nz](http://www.waihanga.nz).

Legislation accessed at [www.legislation.govt.nz](http://www.legislation.govt.nz)

- Building Act 2004
- Health and Safety at Work Act 2015
- The New Zealand Building Code.

Standards accessed at [www.standards.govt.nz](http://www.standards.govt.nz)

- NZS 3602:2003 *Timber and wood-based products for use in building*
- NZS 3604:2011 *Timber-framed Buildings*.

Best practice and good practice guidelines

- *The Absolutely Essential Health and Safety Toolkit for Small Construction Sites*, and other Worksafe NZ publications available from [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

## Skill specification and performance level guidance

### Skill specification

Manufacture pre-nailed timber wall frames in a controlled environment.

### Knowledge

The placement and purpose of timber wall frame members.

Range top plate, bottom plate, raking plate, nog (dwang), stud, jack stud, double stud, trimmers (sills), lintels.

The requirements for cutting timber wall frame members.

Range cutting list, selecting timber lengths, cut types, saw operation, clearing cut members, workplace health and safety requirements; cutting includes use of computer controlled saws or manual saws.

The purpose and requirements for the use of fixings for timber wall frame manufacture.

The purpose and requirements for the use of additional and associated products for timber wall frame manufacture.

Range additional and associated products may include – damp proof coursing, additional top plate, loose structural grade framing, composite beam, flitch beam.

The set out, workplace health and safety, and assembly requirements for the manufacture of timber wall frame panels in a controlled environment.

Range clamp framing members, nog (dwang) placement, nailing, placement of fixings, placement of additional and associated products, clear wall frame panel from assembly line.

### Skills

Cut timber wall frame members.

Range computer controlled saws or manual saws.

Select and check the quality of timber wall frame members and hardware for use in wall frame assembly.

Set out timber wall frame members ready for wall frame panel assembly.

Range must include – clear and accurate marking of the top and bottom plates of frames in the correct sequence.

Assemble timber wall frame panels in a controlled environment.

Range clamp framing members, nog (dwang) placement, nailing, placement of fixings, placement of additional and associated products, clear wall frame panel from the assembly line.

### Performance level guidance

Performance must reflect construction in a controlled environment to the required production rates, job documentation, workplace health and safety requirements and workplace procedures.

Performance must reflect the use of either computer controlled machinery or manually operated machinery.

|                            |                  |
|----------------------------|------------------|
| <b>Planned review date</b> | 31 December 2026 |
|----------------------------|------------------|

### Status information and last date for assessment for superseded versions

| Process      | Version | Date             | Last Date for Assessment |
|--------------|---------|------------------|--------------------------|
| Registration | 1       | 25 November 2021 | N/A                      |

|  |      |
|--|------|
| <b>Consent and Moderation Requirements (CMR) reference</b> | 0048 |
|--|------|

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

---

**Comments on this unit standard**

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihanga.nz](mailto:qualifications@waihanga.nz) if you wish to suggest changes to the content of this unit standard.