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| Title | Demonstrate knowledge of wall frame construction for frame and truss detailing | | |
| Level | 3 | Credits | 5 |

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| Purpose | <p>This unit standard is intended for people who may be employed in, or are working towards achieving a qualification in, frame and truss detailing.</p> <p>People credited with this unit standard are able to: describe the structural requirements and design principles for the construction of timber wall framing; and describe methods of setting out, assembling and erecting timber wall framing for wall frame construction.</p> |
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| Classification | Construction Trades > Carpentry Theory |
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| Available grade | Achieved |
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Explanatory notes

1 Definitions

Industry standards are standards that are documented and recognised by industry, and are relevant to the building material used. Standards relevant to this unit standard are listed in explanatory note 3.

Specific design is a design that ensures compliance with the Building Act 2004 when the construction requirements of a building deviates from, or is beyond the scope of recognised industry standards (New Zealand Standards, Australia/New Zealand Standards, British Standards and other published standards that govern the construction industry).

2 Credit for this unit standard indicates compliance with industry practice. Industry practice refers to the ability to demonstrate knowledge that reflects the uniformity, finish quality and material economies currently accepted within industry.

3 Legislation and publications relevant to this unit standard include:

Building Act 2004;

New Zealand Building Code;

NZS 3604:2011 *Timber-framed buildings* and NZS 3602:2003 *Timber and wood-based products for use in building* available from Standards New Zealand (www.standards.co.nz).

Outcomes and evidence requirements

Outcome 1

Describe the structural requirements and design principles for the construction of timber wall framing.

Evidence requirements

- 1.1 Wall framing components are identified and described in terms of their structural requirements and design principles, including an explanation of their location and purpose.

Range plates, including raking plates; common stud, supporting stud, trimming stud, critical stud, trimmers, lintels, beams, dwangs (noggins), ribbon boards, posts, bracing, sills, fixings, jacks.

- 1.2 Methods of achieving bracing requirements are described in terms of structural requirements and design principles, and in accordance with industry standards and manufacturer's recommendations.

Range sheet diaphragm, metal angle, proprietary systems.

Outcome 2

Describe methods of setting out, assembling and erecting timber wall framing for wall frame construction.

Range single, two-storey.

Evidence requirements

- 2.1 Methods of setting out wall framing components are determined and described in terms of their design principles and the consequences for structural integrity, and in accordance with industry standards and/or specific design.

Range plates, including raking plates; common stud, supporting stud, trimming stud, critical stud, trimmers, lintels, beams, dwangs (noggins), ribbon boards, posts, bracing, sills, fixings, jacks.

- 2.2 Methods of assembling and erecting wall framing members are determined and described in terms of design principles and their consequences for structural integrity, and in accordance with industry standards and/or specific design.

Range use of connectors, provision of bracing elements, temporary bracing.

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| Planned review date | 31 December 2016 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-----------------|--------------------------|
| Registration | 1 | 19 January 2012 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0048 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.