

## Field Planning and Construction

### Review of *Concrete, Construction Trades, and Masonry* unit standards

Subfield	Domain	ID
Concrete	Precast Concrete	31356-31360
Construction Trades	Core Construction	31337-31342, 31361
	Floor and Wall Tiling	31343-31347
	Proprietary Plaster Cladding Systems	31348-31355
	Solid Plastering	31370-31376
Masonry	Brick and Block Laying	31329-31336
	Refractory Installation	31362-31369

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council (WDC) has completed the review of the unit standards listed above.

**Date new versions published**

**August 2022**

**Planned review date**

**December 2027**

### Summary

Waihanga Ara Rau Construction and Infrastructure WDC initiated a review of the unit standards listed above. The unit standards are used in programmes leading to the New Zealand Certificate in Trowel Trades (Level 4) with strands [Ref: 3137-2]. The qualification was reviewed in 2020. The unit standards listed above were reviewed to align with the graduate outcomes of version 2 of the qualification, the qualification's *Trowel Trades Specifications* (as referenced in the qualification document), and feedback related to the unit standards from industry representatives.

The review of this suite of unit standards included consultation with five industry groups from December 2021 to June 2022; Brick and Block Laying, Floor and Wall Tiling, Exterior Plastering (Solid Plastering & Proprietary Plaster Cladding Systems), Ferro-cement Tank Manufacture, and Refractory Installation. The industry groups were consulted on via regular email updates, and online Teams meetings. Representatives included employers, peak bodies, suppliers, recognised industry specialists.

### Main changes

- Titles of 22 unit standards (one Precast Concrete, three Core Construction, four Solid Plastering, seven Brick and Block Laying, two Floor and Wall Tiling, three Proprietary Plaster Cladding Systems, and two Refractory Installation) were changed to clarify the overarching outcomes of these unit standards.
- Titles and credit values of three unit standards (one Floor and Wall Tiling, and two Proprietary Plaster Cladding Systems) were changed to clarify the overarching outcomes of the unit standards and reflect the notional hours required to develop commercial competence.
- Credit value of one Floor and Wall Tiling unit standard has increased to better reflect the notional hours to develop commercial competence.
- Unit standard 31347 was designated expiring and will not be replaced because it is no longer required by industry.
- Two new Floor and Wall Tiling unit standards have been developed to better describe the current skills and knowledge required of a floor and wall tiler.
- Unit standard 31335 was replaced with two new unit standards to recognise that the skills for preparing for brick laying and preparing for block laying are different, and are now in separate unit standards.
- Three Refractory Installation unit standards were replaced by new unit standards to better reflect current industry practice.

In addition to above, the following changes were made to 43 Category B unit standards to reflect current industry practice and to provide clarity:

- Guidance information, including current references and definitions, was updated,
- Standard Setting Body information was updated,
- “Know” and “Do” fields were changed to “knowledge” and “skills”,
- Details in the Performance Level Guidance section were moved to range statements by the related criterion,
- Minor updates were made to criteria for clarity of current industry practice that does not change the overarching unit standard outcome,
- Performance Level Guidance section was updated to clearly articulate the overarching expected level of capability of graduates of each unit standard.

### Category C and D unit standards will expire at the end of December 2025

The last date for assessment of superseded versions of Category B unit standards is December 2025

### Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Subfield	Masonry	6	Standard	33072, 33073, 33077, 33079, 33081	4
Domain	Brick and Block Laying	4	Standard	33072, 33073	4
Domain	Refractory Installation	4	Standard	33077, 33079, 33081	4

### Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

### Planning and Construction > Concrete > Precast Concrete

ID	Title	Level	Credit	Review Category
31356	Place and finish concrete components used in the manufacture of ferro-cement tanks	4	13	B
31357	Demonstrate understanding of materials and products used to manufacture ferro-cement tanks <b>Demonstrate knowledge of materials, and store and protect materials and products used to manufacture ferro-cement tanks</b>	4	6	B
31358	Mix sand and cement plaster for ferro-cement tank manufacture	4	8	B
31359	Plaster ferro-cement tanks	4	40	B
31360	Prepare to manufacture ferro-cement tanks	4	8	B

Planning and Construction > Construction Trades > Core Construction

ID	Title	Level	Credit	Review Category
31337	Read and interpret working drawings and specifications, and apply them to undertake trowel trades projects	4	6	B
31338	Apply legislative frameworks in a trowel trades context	4	7	B
31339	Use mathematics for trowel trades projects	4	4	B
31340	Plan and communicate in a trowel trades context <b>Plan and communicate to complete a programme of work in a trowel trades context</b>	4	4	B
31341	Demonstrate understanding of building science for trowel trades <b>Demonstrate knowledge of building science for trowel trades</b>	4	3	B
31342	Use and maintain tools and equipment in a trowel trades context	4	6	B
31361	Maintain the professional standards of a specific trowel trade <b>Maintain professional standards and demonstrate leadership as a trowel trades professional</b>	4	15	B

Planning and Construction > Construction Trades > Floor and Wall Tiling

ID	Title	Level	Credit	Review Category
31343	Finish tiles <b>Undertake finishing tasks for floor and wall tile installation</b>	4	20	B
31344	Cut and fix tiles <b>Cut and install floor and wall tiles</b>	4	48	B
31345	Demonstrate understanding of materials used for floor and wall tiling <b>Demonstrate knowledge of materials, and store and protect materials used for floor and wall tiling</b>	4	6 10	B
31346	Mix beds, adhesives and grouts for floor and wall tiling	4	11 7	B
31347	Prepare to fix tiles	4	40	D
<b>33074</b>	<b>Prepare substrates for floor and wall tiling</b>	<b>4</b>	<b>20</b>	<b>New</b>
<b>33075</b>	<b>Install undertile waterproofing systems</b>	<b>4</b>	<b>20</b>	<b>New</b>

Planning and Construction > Construction Trades > Proprietary Plaster Cladding Systems

ID	Title	Level	Credit	Review Category
31348	Demonstrate understanding of license requirements, and undertake proprietary plaster cladding to meet consent compliance <b>Demonstrate knowledge of license requirements, and undertake proprietary plaster cladding to meet consent compliance</b>	4	4	B
31349	Attach and integrate decorative mouldings with a proprietary plaster cladding system	4	5	B
31350	Demonstrate understanding of fixing substrates for proprietary plaster cladding systems <b>Demonstrate knowledge of installing substrates for proprietary plaster cladding systems</b>	4	6 5	B

ID	Title	Level	Credit	Review Category
31351	Fix cavities and substrates for proprietary plaster cladding systems <b>Install cavities and substrates for proprietary plaster cladding systems</b>	4	14 15	B
31352	Demonstrate understanding of materials used for proprietary plaster cladding systems <b>Demonstrate knowledge of materials, and store and protect materials used for proprietary plaster cladding systems</b>	4	6	B
31353	Mix modified plaster for proprietary plaster cladding systems	4	6	B
31354	Prepare, plaster and finish surfaces <b>Complete preparation tasks, apply modified plaster, and finish surfaces</b>	4	70	B
31355	Repair and maintain existing proprietary plaster cladding systems	4	14	B

Planning and Construction > Construction Trades > Solid Plastering

ID	Title	Level	Credit	Review Category
31370	Demonstrate understanding of licensing requirements, and undertake solid plastering work to meet consent compliance <b>Demonstrate knowledge of licensing requirements, and undertake solid plastering work to meet consent compliance</b>	4	4	B
31371	Run and fix decorative solid or modified plastered mouldings <b>Run and install decorative solid or modified plastered mouldings</b>	4	40	B
31372	Demonstrate understanding of materials used for solid plastering <b>Demonstrate knowledge of materials, and store and protect materials used for solid plastering</b>	4	6	B
31373	Mix solid and modified plaster	4	8	B
31374	Plaster surfaces <b>Apply solid plaster to surfaces</b>	4	80	B
31375	Prepare substrates for the application of solid plaster	4	10	B
31376	Repair and maintain existing solid plasterwork	4	17	B

Planning and Construction > Masonry > Brick and Block Laying

ID	Title	Level	Credit	Review Category
31329	Demonstrate understanding of alternative claddings and features <b>Demonstrate knowledge of the transitioning of alternative claddings and features with brick and block laying work</b>	4	7	B
31330	Set out and lay blocks <b>Set out and lay structural block masonry</b>	4	45	B
31331	Set out and lay brick structures <b>Set out and lay brick features</b>	4	35	B

ID	Title	Level	Credit	Review Category
31332	Demonstrate understanding of licensing requirements, and undertake brick and blocklaying work to meet consent compliance <b>Demonstrate knowledge of licensing requirements, and undertake brick and block laying to meet consent compliance</b>	4	4	B
31333	Demonstrate understanding of materials used for brick and block work <b>Demonstrate knowledge of materials, and store and protect materials used for brick and block work</b>	4	6	B
31334	Mix mortars for brick and blocklaying <b>Mix mortars for brick and block laying</b>	4	8	B
31335	Prepare for brick and blocklaying	4	15	C
<b>33072</b>	<b>Prepare for laying brick veneers</b>	<b>4</b>	<b>8</b>	<b>New</b>
<b>33073</b>	<b>Prepare for laying structural block masonry</b>	<b>4</b>	<b>7</b>	<b>New</b>
31336	Set out and lay brick walls <b>Set out and lay brick veneer walls</b>	4	45	B

Planning and Construction > Masonry > Refractory Installation

ID	Title	Level	Credit	Review Category
31362	Demonstrate understanding of consenting and permit requirements, and meet requirements for refractory installation work	4	4	C
<b>33077</b>	<b>Demonstrate knowledge of consenting and permit requirements, and meet requirements for refractory installation work</b>	<b>4</b>	<b>10</b>	<b>New</b>
31363	Finish and cure refractories	4	10	B
31364	Install refractory mixes	4	20	C
<b>33079</b>	<b>Set up and install refractory mixes</b>	<b>4</b>	<b>30</b>	<b>New</b>
31365	Lay refractories	4	40	C
<b>33081</b>	<b>Complete preparation requirements and lay refractories</b>	<b>4</b>	<b>54</b>	<b>New</b>
31366	Demonstrate understanding of materials used for refractory installation <b>Demonstrate knowledge of materials used for refractory installation</b>	4	6	B
31367	Mix refractory mixes, castables and mortars	4	10	B
31368	Prepare to lay refractories <b>Prepare for installation of refractories</b>	4	25	B
31369	Repair, maintain and reinstall refractories	4	20	B