

Field Planning and Construction

Review of *Construction* and *Construction Trades* unit standards

Subfield	Domain	ID
Construction	Core Planning and Construction	27160
Construction Trades	Carpentry	13037-13043, 13045-13047, 13049, 13051, 13052, 13056, 13058-13060, 13062-13066, 18727, 18728, 18730, 18732, 24365, 24396-24400, 24401, 24402
	Carpentry Theory	12998-13000, 13002, 13004-13006, 13008-13010, 13015, 13017, 13019, 13020, 13023, 13024, 13026, 13028, 13029, 13031-13034, 21211, 24362-24364, 24378-24386, 24388, 24389, 24391, 24392
	Core Construction	12997, 22145

The Building and Construction Industry Training Organisation (BCITO) has completed the review of the unit standards listed above.

Date new versions published

September 2021

Planned review date

December 2026

Summary

Following the Targeted Review of Qualifications, the National Certificate in Carpentry (Level 4) [Ref: 0016] was replaced by the New Zealand Certificate in Carpentry (Level 4) [Ref: 2738], and new standards were developed for use in programmes leading to the New Zealand Certificate. The unit standards in this application were retained because they were also used in other programmes.

Subsequently, BCITO reviewed the standards in this application and determined they were not fit for purpose. When registered, the standards were intended for use in apprenticeship programmes that recognise commercial competence, but there remains a need to recognise carpentry skills gained in pre-trade programmes. Generally, people who complete those programmes are not considered commercially competent but are competent to work to construction workplace standards under the supervision of a commercially competent practitioner whose role is to ensure the completed construction meets industry and regulatory requirements.

The changes made at this review are intended to:

- maintain the integrity of programmes leading to commercial competence,
- clearly define the difference between commercial competence and competence under supervision,
- ensure that the standard a person holds reflects their skill set, and
- allow the specified skills and knowledge to be trained and assessed against in environments where flexibility is beneficial and commercial competence is not an expectation.

Main changes

- *Carpentry* and *Carpentry Theory* unit standards at level 4 were changed to Level 3 or were expired and replaced by Level 3 standards that recognise practical skills under supervision.
- Relevant *Core Planning and Construction* and *Core Construction* standards were expired and replaced by Level 3 standards.
- All the Category B review, and new standards in *Carpentry Theory*, and *Core Construction*, were reclassified to the *Carpentry* domain.
- Theory and practical outcomes were separated to facilitate training and assessment in classroom and practical environments.
- Related outcomes were grouped together to better reflect workplace conditions and training and assessment practice.
- Skill sets were updated to reflect current industry practice and requirements.
- Skill sets were adjusted to reflect the lesser requirements for those working under supervision.
- Guidance Information notes and references were updated for currency.

Category C and D unit standards will expire at the end of December 2023

The last date for assessment of superseded versions of Category B unit standards is December 2023

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
Domain	Carpentry Theory	3-5	Domain	Carpentry	3
	Core Construction	2-5	Standards	12997, 22145	3
Standard	13037	3	Standard	32462	3
	13038	3		32462	3
	13039	3		32462	3
	13042	3		32463	3
	13056	4		32471	3
	13058	4		32472	3
	13064	4		32478	3
	24398	4		32499	3
	12998	3		32443	3
	12999	3		32443	3
	13000	3		32443	3
	13032	3		32443	3
	13004	3		32445	3
	13005	3		32445	3
	24379	3		32445	3
	13006	4		32447	3
	13017	4		32452	3
	21211	3		32452	3
	13019	3		32453	3
	13020	3		32453	3
	13024	4		32455	3
	13029	4		32458	3
	13033	4		32460	3
	13034	4		32461	3
	24832	4		32461	3
	24383	4		32490	3
	24384	4		32491	3
	24385	3		32446, 32492	3
	24388	4		32494	3

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

All changes are in **bold**.

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

Planning and Construction > Construction > Core Planning and Construction

ID	Title	Level	Credit	Review Category
27160	Demonstrate knowledge of roles and documentation, and communicate, within the construction industry	3	10	D

Planning and Construction > Construction Trades

ID	Domain	Title	Level	Credit	Review Category
12998	Carpentry Theory	Demonstrate knowledge of carpentry hand tools	3	4	C
12999	Carpentry Theory	Demonstrate knowledge of timber machining equipment used on construction sites	3	3	C
13000	Carpentry Theory	Demonstrate knowledge of portable power tools used on construction sites	3	4	C
13032	Carpentry Theory	Demonstrate knowledge of non-mechanical and mechanical construction equipment	3	1	C
32443	Carpentry	Demonstrate knowledge of tools and equipment used for carpentry	3	9	
13002	Carpentry Theory Carpentry	Demonstrate knowledge of timber used in construction Demonstrate knowledge of timber use in construction	3	2	B
13004	Carpentry Theory	Demonstrate knowledge of setting out a building	4	3	C
13005	Carpentry Theory	Demonstrate knowledge of spot levels and contour plans	4	3	C
24379	Carpentry Theory	Demonstrate knowledge of preliminary work needed for construction	4	2	C
32445	Carpentry	Demonstrate knowledge of establishing a construction site	3	7	
13006	Carpentry Theory	Demonstrate knowledge of preparation for footings and slab on ground construction	4	2	C
32447	Carpentry	Demonstrate knowledge of excavating and filling for footings and slab construction	3	2	
13008	Carpentry Theory Carpentry	Demonstrate knowledge of formwork for footings, foundations, beams and walls up to 1.2 metres Demonstrate knowledge of formwork for footings and foundation walls up to 1.2 metres tall	3	4 3	B
13009	Carpentry Theory Carpentry	Demonstrate knowledge of fabrication and placing of reinforcing steel and steel mesh Demonstrate knowledge of using reinforcing steel for construction	3	1	B
13010	Carpentry Theory Carpentry	Demonstrate knowledge of making and placing concrete Demonstrate knowledge of placing concrete	3	3	B
13015	Carpentry Theory Carpentry	Demonstrate knowledge of construction subcontractors' work and main contractor's responsibilities Demonstrate knowledge of specialist trades on a construction site	3	1	B

ID	Domain	Title	Level	Credit	Review Category
13017	Carpentry Theory	Demonstrate knowledge of fixing exterior claddings	4	3	C
21211	Carpentry Theory	Demonstrate knowledge of the principles of, and methods used in weatherproofing buildings	3	4	C
32452	Carpentry	Demonstrate knowledge of exterior cladding and weather proofing buildings	3	6	
13019	Carpentry Theory	Demonstrate knowledge of the installation of metal and translucent roof claddings and roof lights	3	2	C
13020	Carpentry Theory	Demonstrate knowledge of alternative roof cladding materials and their installation requirements	3	1	C
32453	Carpentry	Demonstrate knowledge of installing roof cladding	3	2	
13023	Carpentry Theory Carpentry	Demonstrate knowledge of selection and installation of mechanical fixings and building hardware Demonstrate knowledge of installing mechanical fixings and building hardware	3	2	B
13024	Carpentry Theory	Demonstrate knowledge of features and construction of pole frames and pole platforms	4	1	C
32455	Carpentry	Demonstrate knowledge of pole frame and pole platform construction	3	1	
13026	Carpentry Theory Carpentry	Demonstrate knowledge of retaining wall construction Demonstrate knowledge of constructing retaining walls	3	2	B
13028	Carpentry Theory Carpentry	Demonstrate knowledge of adhesives and sealants used in construction work Demonstrate knowledge of adhesives and sealants used in construction	3	2 1	B
13029	Carpentry Theory	Demonstrate knowledge of erecting in situ high wall, column, beam, and slab falsework and formwork	4	3	C
32458	Carpentry	Demonstrate knowledge of commercial falsework and formwork	3	3	
13031	Carpentry Theory Carpentry	Demonstrate knowledge of regulations and precautions for demolition work Demonstrate knowledge of demolition work	3	1	B
13033	Carpentry Theory	Demonstrate knowledge of alternative building construction methods	4	1	C
32460	Carpentry	Demonstrate knowledge of alternative construction materials and methods	3	1	

ID	Domain	Title	Level	Credit	Review Category
13034	Carpentry Theory	Demonstrate knowledge of prefabricated beams used in construction	4	1	C
24382	Carpentry Theory	Demonstrate knowledge of setting out, assembling and erecting timber and steel wall frames	4	5	C
32461	Carpentry	Demonstrate knowledge of wall framing and prefabricated beams	3	5	
24362	Carpentry Theory Carpentry	Demonstrate knowledge of working drawings and specifications for building work Demonstrate knowledge of documentation, working drawings, and specifications for building work	3	3	B
24363	Carpentry Theory	Demonstrate knowledge of proprietary suspended concrete floor systems	4	2	C
32485	Carpentry	Demonstrate knowledge of installing proprietary suspended concrete floor systems	3	2	
24364	Carpentry Theory Carpentry	Demonstrate knowledge of compliance with building legislation Demonstrate knowledge of the compliance framework that governs building in New Zealand	3	3 2	B
24378	Carpentry Theory Carpentry	Perform building calculations Make calculations for carpentry	3	4	B
24380	Carpentry Theory Carpentry	Demonstrate knowledge of construction of pile foundations Demonstrate knowledge of constructing pile foundations	3	4	B
24381	Carpentry Theory Carpentry	Demonstrate knowledge of floor framing and flooring construction Demonstrate knowledge of constructing floor framing, flooring, and decking	3	3	B
24383	Carpentry Theory	Demonstrate knowledge of equal pitch gable, and hip, timber and steel roof construction	4	5	C
32490	Carpentry	Demonstrate knowledge of roof truss construction	3	4	
24384	Carpentry Theory	Demonstrate knowledge of construction of alternative roof structures	4	4	C
32491	Carpentry	Demonstrate knowledge of alternative roof structures	3	2	
24385	Carpentry Theory	Demonstrate knowledge of construction principles and installation of exterior and interior joinery, showers and baths	3	2	C
32446	Carpentry	Demonstrate knowledge of installing interior joinery	3	2	
32492	Carpentry	Demonstrate knowledge of installing exterior joinery	3	2	
24386	Carpentry Theory Carpentry	Demonstrate knowledge of thermal insulation and sound control for buildings	4 3	2	B

ID	Domain	Title	Level	Credit	Review Category
24388	Carpentry Theory	Demonstrate knowledge of cutting, fitting and fixing interior linings and trim	4	5	C
32494	Carpentry	Demonstrate knowledge of installing interior linings and trim	3	3	
24389	Carpentry Theory	Demonstrate knowledge of stair and ramp construction	4	4	D
24391	Carpentry Theory	Demonstrate knowledge of the construction of concrete masonry structures and paving	3	3	B
	Carpentry	Demonstrate knowledge of concrete masonry and paving construction		2	
24392	Carpentry Theory	Demonstrate knowledge of alterations and additions for construction	4	3	D

Planning and Construction > Construction Trades > Carpentry

ID	Title	Level	Credit	Review Category
13040	Carry out preliminary work and site establishment on a construction site	4	3	C
13041	Set out buildings on site	4	7	C
13042	Set up levelling equipment and take levels on construction sites	4	5	C
32463	Set out and establish a construction site under supervision	3	12	
13037	Safely use and maintain carpentry hand tools on site	3	6	C
13038	Safely use and maintain bench saws to machine timber on site	3	2	C
13039	Safely use and maintain portable power tools and attachments for construction work on site	3	8	C
32462	Use carpentry tools under supervision	3	12	
13043	Excavate and prepare for footings and slab on ground on site	3	8	B
	Excavate and fill a site for footings and slab construction under supervision		6	
13045	Construct formwork for footings, foundations and walls up to 1.2 metres on site	3	12	B
	Construct formwork for footings and foundation walls up to 1.2 metres tall under supervision		9	
13046	Fabricate and place reinforcing steel and steel mesh on site	3	5	B
	Install reinforcing steel used for footings and foundations for concrete slab construction under supervision		4	
13047	Receive, transport, place, finish and cure concrete on site	3	7	B
	Place, finish, and cure concrete for footings and foundation walls under supervision		4	
13049	Set out, cut, assemble and erect timber wall framing on site	4	16	C
32468	Construct and erect wall frames under supervision	3	14	
13051	Construct timber framed roofs of alternative design on site	4	8	C
32469	Construct timber frames for alternative roof designs under supervision	3	4	

ID	Title	Level	Credit	Review Category
13052	Attend to construction subcontractors on site Attend to specialist tradespeople under supervision	3	4 3	B
13056	Install metal roof claddings and verify the installation of roof claddings by others on site 32471 Cut and fix metal roof cladding under supervision	4 3	4 3	C
13058	Cut, fit and fix interior linings and trim on site 32472 Cut, fit, and fix interior linings and trim under supervision	4 3	10 9	C
13059	Install mechanical fixings and building hardware on site Install mechanical fixings and building hardware under supervision	3	2	B
13060	Construct pole frames or pole platforms on site 32475 Construct pole framing to form the foundation for a residential dwelling under supervision	4 3	12 10	C
13062	Construct retaining walls on site Construct a retaining wall under supervision	3	10 8	B
13063	Attend to and check the construction of concrete masonry structures and paving on site Check construction of concrete masonry and paving under supervision	3	2	B
13064	Use adhesives and sealants on site 32478 Use adhesives and sealants for construction work under supervision	4 3	3 2	C
13065	Construct in situ high wall, column and beam falsework and formwork on site 32479 Construct and strike commercial falsework and formwork under supervision	4 3	16 13	C
13066	Erect and fix prefabricated beams on site 32480 Erect and fix prefabricated beams under supervision	4 3	4 3	C
18727	Plan and carry out demolition work on site 32481 Undertake demolition work under supervision	4 3	10 7	C
18728	Set up, place and fix proprietary suspended concrete floor systems on site 32482 Install proprietary suspended concrete floor systems under supervision	4 3	12 9	C
18730	Set out, cut and erect equal pitch timber gable and hip roof framing on site	4	12	D
18732	Erect timber roof trusses on site 32483 Erect truss roofs under supervision	4 3	8 6	C
24365	Construct substrates for roofing systems on structural steel framework on site 32487 Construct substrates for structural steel framework roofs under supervision	4 3	8 6	C
24396	Construct pile foundations on site Construct pile foundations under supervision	3	16 13	B
24397	Construct floor framing and flooring on site Construct and fix timber floors and decking under supervision	3	10 7	B
24398	Cut, fit and fix exterior cladding on site 32499 Install weather proofing and exterior cladding under supervision	4 3	16 13	C

ID	Title	Level	Credit	Review Category
24399	Install exterior and interior, and wet area joinery and fixtures on site	3	10	C
32442	Install interior joinery under supervision	3	4	
32500	Install exterior joinery under supervision	3	3	
24400	Construct stairs and ramps on site	3	6	C
32501	Construct timber stairs under supervision	3	4	
24401	Install thermal insulation materials in buildings on site	3	1	B
	Install wall and ceiling insulation under supervision			
24402	Install sound control systems in buildings on site	4	3	C
32502	Install sound control systems in buildings under supervision	3	2	
32495	Demonstrate knowledge of constructing timber stairs	3	2	New
32497	Demonstrate knowledge of preparing to make alterations to an existing structure	3	3	New
32503	Work at height in the construction industry under supervision	3	6	New

Planning and Construction > Construction Trades > Core Construction

Planning and Construction > Construction Trades > **Carpentry**

ID	Title	Level	Credit	Review Category
12997	Demonstrate knowledge of safe working practices on construction sites	3	3	B
	Demonstrate knowledge of working safely in construction			
22145	Handle construction materials	2	2	B
	Store and prepare materials for use on construction sites	3		