

# BCATS

## Building, Construction and Allied Trade Skills

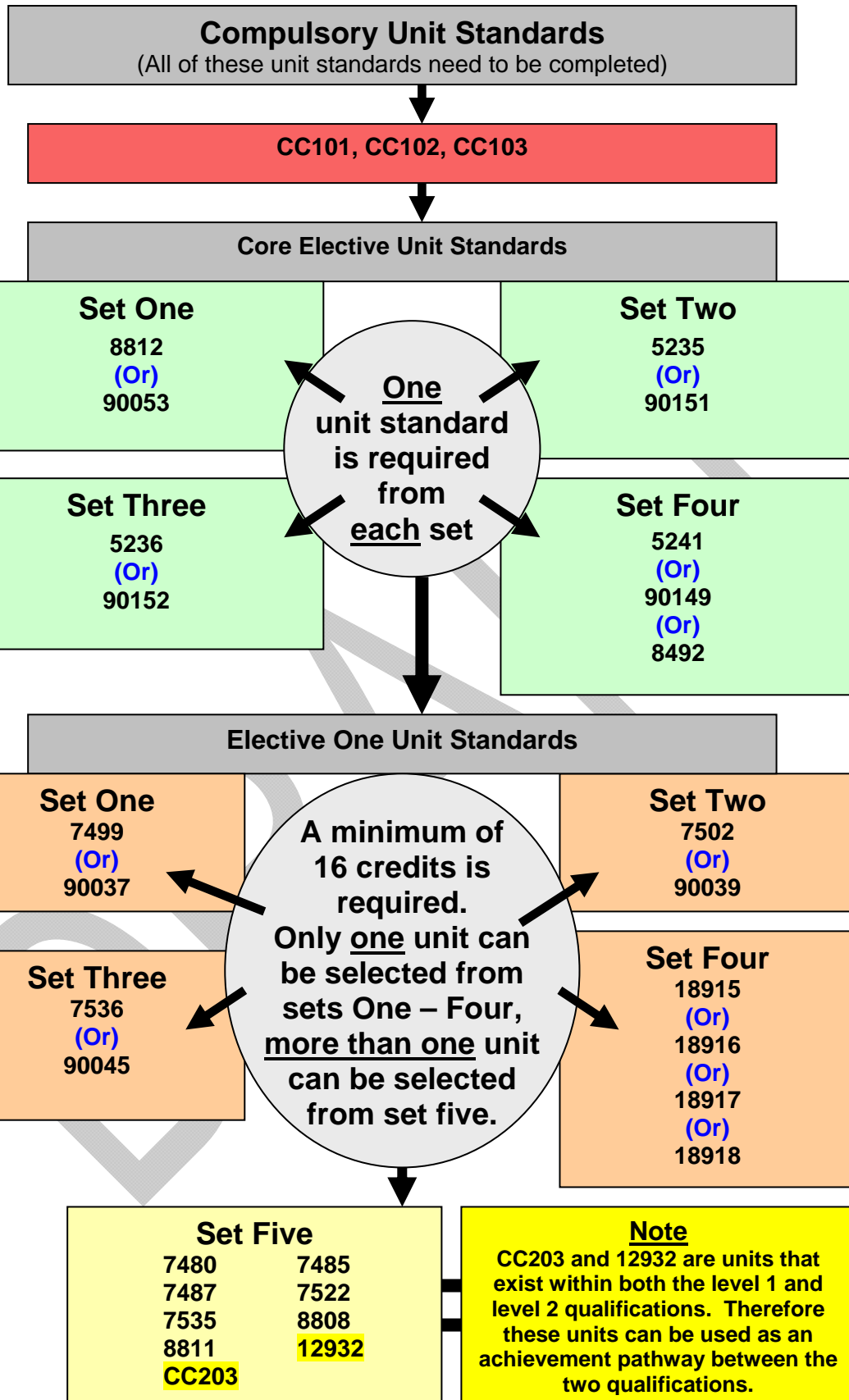
### Qualification Matrices - FINAL DRAFT

The following six pages contain the qualifications matrices for the two new Building, Construction and Allied Trade Skills (BCATS) qualifications (Levels 1 and 2). These are in their final draft state but are yet to be registered with NZQA - as are a number of the unit standards referred to in them.

The following notes need to be taken into consideration when reading this file:

- In some instances, there is a choice between unit standards and achievement standards. (Achievement standards all have numbers in the 90,000's)
- Code numbers beginning with CC or CE are the new BCATS unit standards
- Units from the Elementary Construction Skills domain (12932, 12933, 12935, 12936, 12937, 12938, 12939, 22129, and 22607) will be moved into the new BCATS domain when the other BCATS units are registered.
- Units from the Furniture domain (while still forming part of the elective and core elective sections of the two qualifications) will not be moving to the BCATS domain and therefore will not be part of the Base Scope Accreditation for schools. However, these units are not compulsory within the two qualifications but remain an option for those schools that have the appropriate accreditation.

# National Certificate in Building, Construction and Allied Trades Skills (Entry Level) (Level 1)



**Qualification Summary**

This is the first of two qualifications designed specifically to provide a progressive pathway for secondary school students to integrate into a wide range of trade related occupations. This qualification will be awarded to people credited with the core compulsory standards and who have met the requirements of both the core elective and elective sections.





**Level 1****Compulsory**

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
CC 101	Demonstrate knowledge of construction and manufacturing materials	1	4
CC 102	DKO and apply safe working practices for a construction project	1	2
CC 103	Apply elementary workshop procedures and processes under supervision	1	8
<b>Core Elective – choose one from each pair</b>			
5235 or AS90151	Use strategies to solve number problems Solve straight forward number problems in context	1 1	2 3
5236 or AS90152	Use Pythagoras' theorem and trigonometry to find unknowns in right-angled triangles Solve right-angled triangle problems	1 1	2 2
5241 or 8492 or AS90149	Use strategies to solve measurement problems Use standard units of measurement Solve problems involving measurement of everyday objects	1 1 1	3 3 3
8812 or 90053	Produce transactional written text in simple forms Produce formal writing	1 1	4 3
<b>Elective One</b>			
7499 or AS90037	Use freehand sketching for graphic communication Produce freehand sketches that show design features	1 1	4 3
7502 or AS90039	Produce an instrumental orthographic drawing Produce instrumental working drawings	1 1	4 3
7485	Interpret a design brief, and select and present information for solutions	1	3
7487	Use the design process to solve design problems	1	3
7480	Produce 2D drawings using a computer drawing program	1	3
8808	Read an inclusive range of written texts and record the reading experience	1	3
8811	Collect information using a range of oral, written, and visual sources and methods	1	3
7522	Select and use materials to make products or prototypes	1	4
7535	Create and carry out a project plan in process technology	1	3
7536 or AS90045	Develop sequence of operations for one-off construction in process technology (these are mutually exclusive) Develop a technological solution to address a given brief	1 1	3 6
CC 203	Identify, select, use and maintain hand tools used for construction projects	2	4
12932	Construct wooden garden furniture and items of basic construction equipment	2	8
18915	Use basic hardware in furniture making	1	3
18916	Use basic veneer marquetry in furniture making	1	3
18917	Use basic hand joints in furniture making	1	3
18918	Apply woodworking techniques to construct a basic carcass in furniture making	1	6

<b>Level 2</b>			
<b>Compulsory</b>			
<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
CC200	DIKO of and apply safe working practices on a designated work place	2	4
CC201	Receive instructions and communicate in a construction environment	2	4
CC202	Plan, implement and quality check procedures under supervision for a basic construction project.	2	2
CC203	Identify, select, use and maintain hand tools used for construction projects	2	4
CC204	Identify, select, use and maintain portable power tools under supervision	2	4
<b>Core Elective</b>			
6402	Provide resuscitation level 2.	1	1
8825 or AS90376	Produce transactional written text in complex forms	2	5
	Produce crafted and developed formal transactional writing	2	3
2989 or 12905	Read and assess texts to gain knowledge	2	4
	Read an inclusive variety of written texts and record the reading experience	2	4
AS90323	Design and present a solution for an architectural or environmental brief	2	3
20047	Hand turn wood to produce basic furniture making articles	2	4
9788	Set and operate a bandsaw to produce profiled wooden furniture components	2	2
12932	Construct wooden garden furniture and items of basic construction equipment.	2	8
12933	Use elementary construction skills to complete minor concrete works.	2	4
12935	Use elementary construction skills to erect a spaced residential timber deck.	2	8
12936	Construct a non consent timber framed utility building.	2	8
12937	Use elementary construction skills to erect a timber pergola.	2	5
12938	Use elementary construction skills to lay paving blocks.	2	4
12939	Use elementary construction skills to erect basic garden edge retaining walls.	2	4
22129	Erect and maintain a basic residential fence and gate under supervision	2	7
22607	Read and interpret plans, working drawings and specifications	2	3
CC205	Apply construction skills and processes under supervision	2	8
CC206	Demonstrate knowledge of timber and associated construction materials	2	4
CC207	Apply mathematical processes and present results within a construction or manufacturing situation	2	3
CC208	Demonstrate knowledge of and use specified fixed machinery under supervision	2	4
CC209	DKO and create sketches and drawings for construction projects	2	6
10781	Produce a plan for own future directions		
6400	Manage first aid in emergency situations.	3	2
6401	Provide first aid.	2	1

	Level 1	Level 2	Core Compulsory	Core Elective	Elective
<b>Level 1 credits:</b>			24-26		54-59
<b>Level 2 credits:</b>			20	34	67-69
<b>Minimum totals:</b>	40	40			

## PURPOSE

These qualifications are the product of extensive national consultation with Secondary Schools and Tertiary Education Organisations, which revealed a need for a qualification structure designed to provide easy access and a meaningful pathway to a broader range of more appropriate learning opportunities for students at these levels.

The qualification pathway includes National Certificates at levels 1 and 2, which will lead into a level three qualification that can be achieved at secondary school or in the workplace. Each qualification has an embedded range of skills that incorporate key competencies and subject knowledge across the New Zealand Curriculum while providing secondary school students with the opportunity to experience (explore) a wide range of trade-related occupations.

The qualifications are designed to be flexible around a core of compulsory units so that students will be motivated to explore their interests and make informed choices on subjects that are relevant and appropriate to their needs and objectives.

The entry level certificate, at level one, contains core compulsory unit standards covering numeracy, literacy and personal safety, complemented by workshop-related activities.

The level one core elective and elective sections provide a range of choices so that students can achieve skills aligned with their specific needs and individual learning styles.

The advanced certificate, at level two, includes a core of compulsory unit standards covering essential theoretical and practical construction-industry knowledge and skills. These are complemented by numeracy, literacy and graphics-related unit standards, which have been incorporated to highlight the contribution of these skills to the successful completion of any practical activities in the school workshop and external workplace.