

# National Certificate in Civil Construction Works Level Two – 72–110 Credits

## Training Plan

(Full name) \_\_\_\_\_

The National Certificate in Civil Construction Works comprises 72–110 credits. To be awarded the qualification trainees must complete:

- Core Compulsory Units
- Core Elective Units

Plus one or more of the following strands:

- Concrete Kerb and Channel
- Concrete Work
- Culverts and Drainage Systems
- Interlocking Paving
- Road Construction
- Retaining Structures
- Road Maintenance
- Road Safety Barrier
- Roadside Amenities
- Traffic Signage

Completion of the strands above will lead to a Level 2 qualification, with the exception of the Culverts and Drainage Systems strand, which will lead to a Level 3 qualification.

*Please note: The italicised units can only be achieved by attending an off-job course.*

### Core Compulsory Units – All the units listed below are required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6452	Maintain, transport, and store temporary roadwork signs for civil construction works	2	3			
6453	Demonstrate knowledge of civil construction works	2	3			
6469	Maintain small plant and equipment on civil construction works	1	2			
6472	Carry out manual excavation for civil construction works	1	2			
6475	Maintain records for civil construction work	2	2			
6476	Read and interpret civil construction plans	2	2			
6477	Hand-spread materials and assist mechanical compacting plant on civil construction works	1	3			
6479	Locate and identify services on civil construction sites	3	4			
17327	Communicate on civil construction sites	2	3			
17328	Demonstrate fundamental knowledge of earthworks	2	5			

### Core Elective 1 – A minimum of 15 credits of which a minimum of 5 credits at Level 2 or above are required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	Tick to select
497	Demonstrate knowledge of workplace health and safety requirements	1	3				
5627	Operate as a Traffic Controller (TC) for low volume and Level 1 roads	3	4		✓	TC1 Card	
6400	<i>Manage first aid in emergency situations</i>	3	2	6401	✓		

## Core Elective 1- Continued

Core Elective 1- Continued							Tick to select
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
6401	<i>Provide first aid</i>	2	1	6402	✓		
6402	<i>Provide resuscitation Level 2</i>	1	1		✓		
17592	Identify the causes of back injury and methods to prevent back injuries in the workplace	3	4				
17594	Demonstrate knowledge of hearing conservation in the workplace	3	3				
17599	<i>Plan a confined space entry</i>	4	5		✓		
17600	Explain safe work practices for working at heights	3	3				
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4				
18426	<i>Demonstrate knowledge of hazards associated with confined space</i>	3	4		✓	497, 3058, 6401, 6402 recommended	
20645	<i>Describe the requirements of the HSNO Act 1996 relevant to approved handlers</i>	3	3		✓	497 recommended	
20866	Work safely with others in the civil infrastructure industry	3	5	20870, 20873			
20867	Respond to fire incidents at a civil infrastructure worksite	3	4				
20868	Demonstrate knowledge of emergency response in the civil infrastructure industry	3	4				
20869	Demonstrate knowledge of notifiable works and permits in the civil infrastructure industry	3	2				
20870	Describe protection of health, safety and environment in the civil infrastructure industry	3	7				
20871	Supervise health and safety requirements on a civil infrastructure worksite	4	8	20866, 20874			
20872	Take control of an emergency at a civil infrastructure worksite	4	6	20868			
20873	Demonstrate knowledge of health, safety, and environmental legislation at civil infrastructure sites	2	5				
20874	Demonstrate knowledge of health and fitness for civil infrastructure personnel	3	5				
20875	Demonstrate knowledge of slinging, lifting, and placing with an excavator or loader	3	5				
20876	Conduct and document civil infrastructure worksite health and safety	4	2				
20877	Demonstrate knowledge of working safely at sites under temporary traffic management	2	1				
20878	Assist with temporary traffic management for low volume and Level 1 roads	2	1	20877			

## Core Elective 2 – A minimum of 1 unit is required.

Core Elective 2 – A minimum of 1 unit is required.							Tick to select
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
5228	Take measurements and use calculations to solve measurement problems	1	3				
8492	Use standard units of measurement	1	3				

Note: Achievement Standard 90149 meets the requirement of this elective.

### Core Elective 3 – A minimum of 1 unit is required.

Tick to select

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
5225	Use fractions, ratio, and proportion to solve problems	1	2				
8491	Read and interpret information presented in tables and graphs <sup>3</sup>	1	2				

Note: Achievement Standard 90151 meets the requirement of this elective.

### Core Elective 4 – A minimum of 15 credits are required.

Tick to select

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
6457	Use generator and compressor for civil construction	2	2				
6467	Operate a plate compactor on civil construction materials	2	4				
6470	Operate a handheld pavement breaker	2	4				
6471	Dismantle decommissioned services for civil construction	2	2				
6480	Assist with survey and set-out on civil construction works	1	3				
6485	Install hand rails or sight rails on civil construction works	2	4	6479			
11306	Restore pavement using stabilisation techniques	2	5				
11307	Maintain road bridge surface and furniture	2	5				
11308	Maintain road bridge waterways	2	3				
11313	Maintain footpath in road reserve	3	5				
11315	Maintain road reserve by removing detritus and litter	2	3				
11319	Trim and remove vegetation for roading maintenance	2	2				
12933	Use elementary construction skills to complete minor concrete works	2	4			To be achieved as part of the BCATS programme	
19675	Operate a road saw	2	4				
22269	Demonstrate knowledge of wheeled loaders in civil construction	3	3				
22270	Demonstrate knowledge of graders and scrapers in civil construction	3	3				
22271	Demonstrate knowledge of self-propelled rollers in civil construction	3	3				
22272	Demonstrate knowledge of bulldozers in civil construction	3	3				
22273	Demonstrate knowledge of operating articulated dump trucks in civil construction	3	3				
22287	Maintain roading median strips, berms and traffic islands	2	2				
22288	Maintain road clear of ice	3	5				
22290	Demonstrate knowledge of quality assurance requirements on civil construction works	3	3				

Note: Achievement Standard 90151 meets the requirement of this elective.

**Total Elective Credits**

**Strand Options** – A minimum of one strand is required.

Concrete Kerb and Channel Strand – A minimum of 18 credits are required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6486	Construct concrete vehicle crossings	3	5	6479		
22284	Construct kerb and channel	3	10			
22285	Prepare for kerb and channel construction and reinstate site	3	8			

Concrete Work Strand – All units listed below are required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
12025	Place and finish concrete for concrete construction	2	12			
12033	Cure concrete	2	5			
12034	Carry out surface dressing of concrete	2	5			
12933	Complete minor concrete works as a BCATS project	2	4			To be achieved as part of the BCATS programme

Culverts and Drainage Systems Strand – All units listed below are required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6483	Install pipe culverts and structures on road construction works	3	15	6479		
11309	Maintain road by manually cleaning and repairing open drainage system	3	7			
11310	Maintain road subsoil drainage systems	3	3			
11311	Maintain road drainage structures	3	7			
11312	Maintain piped stormwater drainage systems in road reserve	3	5			
17330	Demonstrate knowledge of the set-out and maintenance of road drainage systems	3	5	6479		
20875	Demonstrate knowledge of slinging, lifting, and placing with an excavator or loader	3	5			

Interlocking Paving Strand – All units listed below are required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6467	Operate a plate compactor on civil construction materials	2	4			
6482	Construct interlocking pavers on civil construction works	3	18			

Road Construction Strand – All units listed below are required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
12569	Demonstrate knowledge of the design, construction, and maintenance of road drainage systems	4	15			
12570	Demonstrate knowledge of the materials used in road formation	4	10			

**Retaining Structures Strand** – Meet the requirements of the Compulsory and Elective Sets below. Tick to select strand**Compulsory Set** – All the units listed below are required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
13026	Demonstrate knowledge of retaining wall construction to 1.5 metres high	3	2			
20875	Demonstrate knowledge of slinging, lifting, and placing with an excavator or loader	3	5			

**Compulsory Set** – A minimum of one unit is required.

Tick to select

6484	Install gabion baskets for civil construction works	3	8			
13062	Construct retaining walls	3	10			

**Road Maintenance Strand** – All units listed below are required. Tick to select strand

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
11303	Maintain road by repairing unbound pavement layers	2	5			
11304	Maintain road by repairing chipsealed surfaces	2	3			
11305	Adjust the height of surface boxes for roading maintenance	2	3			
11316	Maintain road by installing and refurbishing traffic signs and delineators	3	8			

**Road Safety Barrier Strand** – The unit below is required. Tick to select strand

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
22993	Install guard rails or wire rope barriers on civil construction works	3	15	6479		

**Roadside Amenities Strand** – All units listed below are required. Tick to select strand

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6485	Install hand rails or sight rails on civil construction works	2	4	6479		
11317	Install and maintain roadside amenities	2	3			
22287	Maintain roading median strips, berms and traffic islands	2	2			

**Traffic Signage Strand** – All units listed below are required. Tick to select strand

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
11316	Maintain road by installing and refurbishing traffic signs and delineators	3	8			
22289	Prepare and install traffic service poles, signage, and roadside furniture	3	8			