

National Certificate in Civil Plant Operation Level Three – 88-98 Credits

Training Plan

(Full name)

The National Certificate in Civil Plant Operation is a Level 3 qualification comprising 88-98 credits. To be awarded the qualification, trainees must complete:

- Core Compulsory Units
- Core Elective Units

Plus one or more of the following: Culverts and Drainage Systems Strand, Earthworks Strand, Road Construction Strand, Road Maintenance Strand.

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

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6436	Inspect civil construction plant and equipment	4	5			
6479	Locate and identify services on civil construction sites	3	4			
17327	Communicate on civil construction sites	2	3			
22290	Demonstrate knowledge of quality assurance requirements on civil construction works	3	3			

Core Elective Units – A minimum of 18 credits are required, of which a minimum of 5 credits must be at Level 3 or above.

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				
6400	Manage first aid in emergency situations	3	2	6401, 6402	✓		
6401	Provide first aid	2	1	6402	✓		
6402	Provide resuscitation Level 2	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	Plan a confined space entry	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	Demonstrate knowledge of hazards associated with confined space	3	4		✓		
20645	Describe the requirements of the HSNO Act 1996 relevant to approved handlers	3	3		✓		
20866	Work safely with others in the civil infrastructure industry	3	5				
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				

Core Elective Units - Continued.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	Tick to select
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				
20872	Take control of an emergency at a civil infrastructure worksite	4	6				
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			

Strand Options – A minimum of one strand is required.

Culverts and Drainage Systems Strand – Meet the requirements of the elective sets below.

Tick to select strand

Culverts and Drainage Systems Strand Elective 1 – A minimum of 40 credits are required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	Tick to select
6466	Convey civil construction plant by transporter	3	20				
6468	Operate a mechanical rockbreaker	3	10				
8560	Deliver, stockpile, and spread aggregates with truck and trailer	3	12				
17309	Operate a wheeled loader on civil construction sites	3	20				
17310	Operate a hydraulic excavator on civil construction sites	3	20				
17315	Operate a self-propelled roller on civil construction sites	3	20				

Culverts and Drainage Systems Strand Elective 2 – A minimum of 20 credits are required.

Tick to select

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	Tick to select
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 recommended	

Earthworks Strand – Meet the requirements of the compulsory and elective sets below. Tick to select strand**Earthworks Strand Compulsory** – All units listed below are required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
17328	Demonstrate fundamental knowledge of earthworks	2	5			
17501	Demonstrate knowledge of foundation and subgrade on civil construction works	3	5			

Earthworks Strand Elective – A minimum of 55 credits are required.

Tick to select

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6466	Convey civil construction plant by transporter	3	20			
6468	Operate a mechanical rockbreaker	3	10			
17309	Operate a wheeled loader on civil construction sites	3	20			
17310	Operate a hydraulic excavator on civil construction sites	3	20			
17311	Operate a motor grader for earthworks	3	20			
17314	Operate a motor scraper on civil construction sites	3	20			
17315	Operate a self-propelled roller on civil construction sites	3	20			
17316	Operate a bulldozer on civil construction sites	3	20			
17317	Operate an articulated dump truck on civil construction sites	3	20			
20628	Operate a water cart in civil construction	3	10			
22281	Operate an excavator for facing and benching	3	5			
22282	Operate an excavator for rock placement	3	5			

Road Construction Strand – Meet the requirements of the compulsory and elective sets below. Tick to select strand**Road Construction Strand Compulsory** – The unit listed below is required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
12570	Demonstrate knowledge of the materials used in road formation	4	10			

Road Construction Strand Elective – A minimum of 45 credits are required.

Tick to select

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
6465	Operate a power-driven rotary broom	3	6			
6466	Convey civil construction plant by transporter	3	20			
6468	Operate a mechanical rockbreaker	3	10	17310		
8560	Deliver, stockpile, and spread aggregates with truck and trailer	3	12			
17309	Operate a wheeled loader on civil construction sites	3	20			
17310	Operate a hydraulic excavator on civil construction sites	3	20			
17313	Operate a motor grader for road construction	3	30			
17314	Operate a motor scraper on civil construction sites	3	20			
17315	Operate a self-propelled roller on civil construction sites	3	20			
17316	Operate a bulldozer on civil construction sites	3	20			
20628	Operate a water cart in civil construction	3	10			
22275	Operate a roadsweeper in civil construction	3	10			

Road Construction Strand Elective – Continued							Tick to select
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
22277	Operate a road mill in civil construction	3	20				
22278	Operate a reclaimer stabiliser in civil construction	3	20				
22279	Operate a skid steer in civil construction	3	10				
22280	Operate a stabilising spreader in civil construction	3	10				
22281	Operate an excavator for facing and benching	3	5	17310			
22282	Operate an excavator for rock placement	3	5	17310			

Road Maintenance Strand – Meet the requirements of the compulsory and elective sets below. Tick to select strand

Road Maintenance Strand Elective 1 – A minimum of 10 credits are required.

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				
22286	Maintain roading kerb lines and channels	3	5				
22287	Maintain roading median strips, berms and traffic islands	2	2				
22288	Maintain road clear of ice	3	5				
22291	Maintain road clear of snow	3	5				

Road Maintenance Strand Elective 2 – A minimum of 55 credits are required. Tick to select

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
6465	Operate a power-driven rotary broom	3	6				
6466	Convey civil construction plant by transporter	3	20				
6468	Operate a mechanical rockbreaker	3	10				
8560	Deliver, stockpile, and spread aggregates with truck and trailer	3	12				
13520	Operate a truck-mounted roller-spreader on chipsealing works	3	10			20455	
17309	Operate a wheeled loader on civil construction sites	3	20				
17310	Operate a hydraulic excavator on civil construction sites	3	20				
17312	Operate a motor grader for road maintenance	3	30				
17315	Operate a self-propelled roller on civil construction sites	3	20				
20455	Demonstrate basic knowledge of safety relating to bituminous materials	2	5				
20628	Operate a water cart in civil construction	3	10				
22275	Operate a roadsweeper in civil construction	3	10				
22276	Operate a suction cleaning vehicle in civil construction	3	6				
22277	Operate a road mill in civil construction	3	20				
22278	Operate a reclaimer stabiliser in civil construction	3	20				
22279	Operate a skid steer in civil construction	3	10				
22280	Operate a stabilising spreader in civil construction	3	10				
22281	Operate an excavator for facing and benching	3	5				
22282	Operate an excavator for rock placement	3	5				