

# National Certificate in Civil Construction Works (Horizontal Directional Drilling) Level Three – 50 Credits

## Training Plan

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

The National Certificate in Civil Construction Works (Horizontal Directional Drilling) is a Level 3 qualification comprising 50 credits.

To be awarded the qualification, trainees must complete:

- Core Compulsory Units
- Core Elective Units

Plus one of the following strands:

- Driller Strand
- Tracker Strand
- Site Supervisor Strand

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

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
20480	Prepare for horizontal directional drilling operations and restore the site afterwards	3	3			
20481	Carry out bore exit and pipe entry tasks for horizontal directional drilling	3	3			
20873	Demonstrate knowledge of health, safety and environmental legislation at civil infrastructure sites	2	5			
25396	Demonstrate knowledge of strike avoidance and strike response for horizontal directional drilling	3	5			

### Core Elective Units – A minimum of 9 credits including 4 credits at Level 3 or above are required.

Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	Tick to select
5627	Operate as a Traffic Controller (TC) for low volume and Level 1 roads	3	4	TC1 Card			
5629	Assist with temporary traffic management site closure for Level 2 and 3 roads	2	2				
6400	Manage First Aid in emergency situations	3	2	6401	✓		
6401	Provide First Aid	2	1	6402	✓		
6402	Provide resuscitation Level 2	1	1		✓		
6427	Allocate plant, equipment and vehicles to civil construction projects	4	8				
6435	Notify members of the public affected by civil construction activities	3	3				
6436	Inspect civil construction plant and equipment	4	5				
6437	Manage the hire of civil plant and equipment	4	8				
6442	Supervise civil construction activities on a single site	4	10				

Core Elective Units – Continued							Tick to select
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
6450	Apply plans and specifications to calculate quantities for civil construction projects	4	8				
6451	Implement notifiable work and permit requirements on civil construction works	4	5	20869			
6452	Maintain, transport and store temporary roadwork signs for civil construction works	2	3				
6453	Demonstrate knowledge of civil construction works	2	3				
6455	Supervise civil construction subcontractors	4	8				
6456	Organise the supply and storage of materials for civil construction	3	4				
6464	Manage civil plant and equipment	4	8				
6471	Dismantle decommissioned services for civil construction	2	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				
6478	Maintain and disestablish temporary civil works sites	2	3				
6479	Locate and identify services on civil construction sites	3	4				
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			
12564	Supervise earthworks preparation for civil construction	4	8				
12568	Plan and supervise site drainage and dewatering work on civil construction sites	4	8				
17327	Communicate on civil construction sites	2	3				
17328	Demonstrate fundamental knowledge of earthworks	2	5				
17501	Demonstrate knowledge of foundation and subgrade on civil construction works	3	5				
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			Can be completed off-job if required	
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			
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 meetings	4	2				
20877	Demonstrate knowledge of working safely at sites under temporary traffic management	2	1				

Continued overleaf...

Core Elective Units – Continued							Tick to select
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments	
20878	Assist with temporary traffic management for low volume and Level 1 roads	2	1	20877			
22283	Identify the occupational areas and structures associated with the NZ civil infrastructure industry	1	2				
22290	Demonstrate knowledge of quality assurance requirements for civil construction works	3	3				
22292	Demonstrate knowledge of field sampling for testing of civil construction materials	4	10				
22293	Demonstrate knowledge of pavement stabilisation on civil construction sites	4	10				
22294	Set out levels and positions in civil construction projects	4	10				
22992	Prepare and maintain records for civil construction works	4	10				
23278	Demonstrate knowledge of pre-check infrastructure pipes, fittings and structures	3	5				
23279	Demonstrate knowledge of excavation for infrastructure pipelaying	3	5				
23280	Establish line, level and grade for infrastructure pipelaying	3	5				
23281	Use and care for hand-held power tools used in civil construction	3	4				
23283	Open roads, excavate, backfill and compact and prepare for surface reinstatement	3	10				
23285	Use and care for hand tools used for infrastructure pipelaying	2	2				
23286	Operate a well-point system for civil construction	3	6	23289			
23288	Demonstrate knowledge of single point groundwater control for infrastructure pipelaying	3	2				
23289	Operate pump systems for dewatering in civil construction	3	4				
25396	Demonstrate knowledge of strike avoidance and strike response for horizontal directional drilling	3	5				
25445	Describe and explain bypass pumping and install, commission and decommission bypasses for infrastructure pipelaying	3	4				
<b>Total Elective Credits</b>							

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

<b>Driller Strand</b> – The units listed below are required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
16703	Demonstrate knowledge and skills for driving on a road for endorsement T (tracks)	3	3	Full Class 1 Driver Licence required	✓	Class 2 Driver Licence recommended
20484	Operate the drill rig for horizontal directional drilling	3	22			

<b>Tracker Strand</b> – The unit listed below is required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
20485	Provide guidance for horizontal directional drilling	4	25			

<b>Site Supervisor Strand</b> – The unit listed below is required.						<input type="checkbox"/> Tick to select strand
Unit No.	Unit Standard Title	Level	Credit	Pre-requisites	Off Job	Comments
20482	Supervise a horizontal directional drilling operation	4	25			20485 or equivalent knowledge recommended

**Please note:** It is strongly recommended that trainees selecting the Site Supervisor Strand have experience as a Tracker and a good understanding of the role of a Driller