

LEVEL 4 CIVIL WORKS



NEW ZEALAND CERTIFICATE IN CIVIL WORKS

(with strands in Earthworks, Road Construction,
Concrete (non-structural), and Road Maintenance)

NZQA REF: 2688 **75-90 credits**

FORMAL RECOGNITION FOR SKILLED INFRASTRUCTURE WORKERS

WHO IS THIS QUALIFICATION FOR?

Civil Works Level 4 is designed for people working on a wide range of infrastructure sites. It will give you the skills and knowledge you need to work safely and competently under limited supervision.

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WHICH SKILLS DOES IT COVER?

Developed with industry, for industry, this qualification covers core skills including:

- Safety and quality assurance
- Interpreting civil works plans
- Applying materials testing and compaction techniques
- Protecting, maintaining and managing drainage systems
- Problem solving and communication

PLUS THE SKILLS IN ONE OF THE FOLLOWING OPTIONAL STRANDS:

EARTHWORKS STRAND:

- Bulk earthmoving and excavation processes

CONCRETE (NON-STRUCTURAL):

- Concrete mix design and manufacturing
- Placing, finishing and curing concrete
- Constructing vehicle crossings, kerb and channel
- Checking for defects and remedial work

ROAD CONSTRUCTION:

- Installing road pavement layers, retaining structures, safety barriers and roadside furniture

L4

ROAD MAINTENANCE:

- Undertaking cyclic and emergency work
- Undertaking pavement repairs and applying reconstruction and stabilisation methods to maintenance tasks
- Maintaining signage, road furniture and guardrails
- Undertaking routine maintenance and repairs to bridges and other structures

L4 CIVIL WORKS

This qualification is ideal for people who are involved in Earthworks, Road Construction, Concrete Work (non-structural) and Road Maintenance, working in:

- Urban subdivisions
- Industrial and marine developments
- Rural development
- Land authority infrastructure maintenance projects
- Forestry development and network maintenance
- Infrastructure facility maintenance
- NZ Transport Authority and Land Authority

HOW IS THE QUALIFICATION ACHIEVED?

The qualification will take around 13 to 15 months, depending on the strand selected. Achievement is through a combination of on-job learning and practical activities and candidates must complete all core components plus at least one of the four strands.

People with significant industry experience may be able to achieve the qualification through Recognition of Current Competence (RCC). This is a process which recognises the skills and knowledge already gained from previous work and/or study.

WHERE CAN IT TAKE YOU?

Gaining this Level 4 qualification, combined with 8,000 hours of experience, will make you eligible to apply for Civil Trades Certification. Check with your Connexis Customer Service Account Manager (CSAM) for more information on Civil Trades Certification.

This New Zealand Certificate can also lead into qualifications in Infrastructure Works Site Supervision and First Line Management.

BENEFITS OF THIS QUALIFICATION	
FOR YOU	FOR YOUR EMPLOYER
<ul style="list-style-type: none"> • Formal recognition of your skills and knowledge – approved by industry • Become highly skilled in your field • Enhances your career prospects • Provides a springboard to further training and higher qualifications 	<ul style="list-style-type: none"> • Employees can work with limited supervision • Meets compliance requirements • Increased productivity • Higher standards – less rework • Greater safety awareness

ENTRY REQUIREMENTS:

It is recommended that people achieve the Level 3 New Zealand Certificate in Infrastructure Works and/or Level 3 New Zealand Certificate in Plant and Equipment Operation, or demonstrate equivalent knowledge and experience, before attempting this qualification.

COMPANY NAME:		TRAINEE NAME:		PHONE:		NSN:	
UNIT STANDARD	LEVEL 4 (QUALIFICATION VERSION 1) NZQA REF: 2688	LEVEL	CREDIT				
ALL OF THE FOLLOWING ARE REQUIRED:							
20866	Work safely on an infrastructure works site	3	7				
20616	Demonstrate knowledge of earthworks in relation to the environment	3	4				
22290	Demonstrate knowledge of and carry out infrastructure works quality assurance requirements	4	5				
28711	Interpret infrastructure plans and set-out information	4	5				
26788	Demonstrate knowledge of drainage for infrastructure works	4	15				
9695	Examine problem-solving models and explain associated techniques	4	3				
26781	Identify and liaise with people affected by activities at an infrastructure works site	4	3				
AT LEAST 10 CREDITS FROM THE FOLLOWING:							
26785	Explain field sampling and collect field samples for infrastructure civil works	4	5				
25832	Use a nuclear density meter to measure compaction of soils, sands, or gravels	4	5				
25833	Demonstrate knowledge of civil construction material compaction, soil mechanics, and testing devices	4	5				
EARTHWORKS STRAND							
ALL OF THE FOLLOWING ARE REQUIRED:							
20624	Demonstrate knowledge of bulk earthmoving	3	4				
17328	Demonstrate fundamental knowledge of earthworks	3	5				
17501	Demonstrate knowledge of subgrade for infrastructure civil works	4	5				
28947	Demonstrate knowledge of earth retaining structures	4	4				
28948	Construct and install an earth retaining structure	4	12				

UNIT STANDARD	LEVEL 4 (QUALIFICATION VERSION 1) NZQA REF: 2688	LEVEL	CREDIT
ROAD CONSTRUCTION STRAND			
AT LEAST 40 CREDITS FROM THE FOLLOWING WITH AT LEAST 18 CREDITS AT LEVEL 4:			
12570	Demonstrate knowledge of the materials used in road formation	4	10
22293	Demonstrate knowledge of pavement stabilisation for road works	4	8
13026	Demonstrate knowledge of retaining wall construction	3	2
13062	Construct retaining walls onsite	3	10
22289	Install traffic services poles, signage, and roadside furniture	3	4
22993	Install guard rails or wire rope barriers on on civil construction works	3	15
MAY INCLUDE:			
28712	Mount a sign gantry	3	5
6483	Install pipe culverts and structures on road construction works	3	15
26787	Demonstrate knowledge of road drainage systems	4	6
CONCRETE (NON-STRUCTURAL) STRAND			
13010	Demonstrate knowledge of making and placing concrete	3	3
6486	Construct concrete vehicle crossings	4	5
22284	Construct kerb and channel	4	8
AT LEAST 22 CREDITS FROM THE FOLLOWING:			
6483	Install pipe culverts and structures on road construction works	3	15
18513	Place and finish exposed aggregate concrete for concrete construction onsite	3	8
26048	Place and finish concrete for concrete construction onsite	3	15
26051	Demonstrate knowledge, and carry out curing, of concrete	2	8
ROAD MAINTENANCE STRAND			
AT LEAST 15 CREDITS FROM THE FOLLOWING:			
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
11319	Trim and remove vegetation for road maintenance	3	4
22288	Maintain road clear of ice	3	5
22291	Maintain road clear of snow	3	5
26787	Demonstrate knowledge of road drainage systems	4	6
THE FOLLOWING IS REQUIRED:			
28714	Explain pavement failure and restoration	4	3
AT LEAST 7 CREDITS FROM THE FOLLOWING:			
12933	Complete minor concrete works as a BCATS project	2	4
11303	Maintain road by repairing unbound pavement layers	3	5
11304	Maintain road by repairing chipsealed surfaces	3	3
11306	Restore pavement using stabilisation techniques	3	4
AT LEAST 10 CREDITS FROM THE FOLLOWING:			
11316	Installing and maintain traffic signs and delineators	3	8
22289	Install traffic service poles, signage, and roadside furniture	3	4
27907	Identify and inspect road safety barrier systems on Infrastructure Works sites	4	10
THE FOLLOWING IS REQUIRED:			
11307	Maintain road bridge surface and furniture	3	5

BROCHURE VERSION 2

FURTHER INFORMATION

WANT TO ENROL OR FIND OUT MORE?
CONTACT US AND WE'LL PUT YOU IN TOUCH
WITH YOUR LOCAL CUSTOMER SERVICE
ACCOUNT MANAGER

Infrastructure ITO

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