

Unit Stand	Title	Level	Credit	Version	SSB
1987	Develop strategies to establish and maintain positive workplace relationships	5	5	6	NZQA
6436	Inspect infrastructure works plant and equipment	4	4	5	Connexis
6451	Carry out notifiable work and permit requirements on an infrastructure works site	4	5	7	Connexis
8084	Conduct a quality audit for compliance with quality standards	6	14	9	NZQA
8441	Describe laboratory quality systems	5	4	7	NZQA
9685	Write an analytical report	5	5	8	NZQA
9691	Demonstrate knowledge of group processes	5	5	7	NZQA
10543	Plan, identify and protect underground services during excavation and reinstatement	3	10	6	Connexis
11429	Contribute to infrastructure asset management planning	6	30	7	Connexis
13519	Operate an asphalt paving machine	3	20	6	Connexis
14290	Joint, test and commission specialist communication cable systems	4	5	7	Connexis
14700	Apply and remove safety measures in an electricity supply environment	3	3	6	Connexis
16701	Demonstrate knowledge and skills for driving on a road for endorsement W (wheels)	3	3	4	Connexis
16702	Demonstrate knowledge and skills for driving on a road for endorsement R (rollers)	3	3	4	Connexis
16703	Demonstrate knowledge and skills for driving on a road for endorsement T (tracks)	3	3	4	Connexis
17305	Use optimised decision-making process for infrastructure asset management	6	15	5	Connexis
17308	Conduct risk management in an infrastructure asset management context	6	15	5	Connexis
17310	Operate a hydraulic excavator on infrastructure works sites	3	20	3	Connexis
17600	Explain safe work practices for working at heights	3	3	7	Skills Org
17676	Carry out a pre-start vehicle check on a vehicle or machine, and start and shut down the vehicle or machine	2	3	5	MITO
18026	Carry out a rescue from an electricity supply services pit	3	2	5	Connexis
18038	Describe health and safety duties on electricity supply sites	2	5	5	Connexis
18275	Describe the major sectors in the New Zealand electricity supply industry and the relationships between them	2	2	4	Connexis
20092	Demonstrate knowledge of plant and equipment in electricity supply networks	2	5	7	Connexis
20095	Respond to substation secondary systems alarms and indications in the electricity supply industry	4	4	5	Connexis
20484	Operate the drill rig for horizontal directional drilling	3	20	4	Connexis
20485	Provide tracking for horizontal directional drilling	4	20	4	Connexis
21336	Lead a team to achieve a project objective	5	8	4	NZQA
22104	Demonstrate knowledge of pipe jointing systems for water reticulation	4	6	5	Connexis

22106	Describe water quality monitoring and preventative measures in water supply reticulation systems	4	5	4	Connexis
22279	Operate a skid steer on infrastructure works sites	3	10	2	Connexis
23589	Explain process, and develop and measure levels of service, for infrastructure assets	5	10	2	Connexis
23590	Demonstrate knowledge of infrastructure asset information management	6	10	2	Connexis
23591	Demonstrate knowledge of financial and economic analysis for infrastructure asset management	6	15	3	Connexis
23592	Undertake demand management analysis for infrastructure assets	5	10	3	Connexis
25445	Demonstrate knowledge of bypass pumping and employ bypasses for pipeline construction or maintenance	4	4	2	Connexis
26633	Calibrate and maintain test equipment in a civil engineering laboratory	4	8	2	Connexis
26650	Explain specialist soil tests in a civil engineering laboratory	5	24	3	Connexis
26651	Evaluate and troubleshoot specialist soil tests in a civil engineering laboratory	5	18	3	Connexis
26652	Explain soil classification tests in a civil engineering laboratory	5	20	3	Connexis
26653	Evaluate and troubleshoot soil classification tests in a civil engineering laboratory	5	5	3	Connexis
26654	Explain soil density and compaction tests in a civil engineering laboratory	5	12	3	Connexis
26655	Evaluate and troubleshoot soil density and compaction tests in a civil engineering laboratory	5	6	3	Connexis
26656	Explain soil strength tests in a civil engineering laboratory	5	12	3	Connexis
26657	Evaluate and troubleshoot soil strength tests in a civil engineering laboratory	5	6	3	Connexis
26658	Explain fresh concrete tests in a civil engineering laboratory	5	10	3	Connexis
26659	Evaluate and troubleshoot fresh concrete tests in a civil engineering laboratory	5	10	3	Connexis
26660	Explain non-destructive testing of hardened concrete in a civil engineering laboratory	5	10	3	Connexis
26661	Evaluate and troubleshoot non-destructive testing of hardened concrete in a civil engineering laboratory	5	10	3	Connexis
26662	Explain concrete strength and density tests in a civil engineering laboratory	5	10	3	Connexis
26663	Evaluate and troubleshoot concrete strength and density tests in a civil engineering laboratory	5	10	3	Connexis
26664	Describe field investigation tests in civil engineering	4	15	3	Connexis
26665	Perform field investigation tests in civil engineering	4	15	2	Connexis
26666	Explain field investigation tests in a civil engineering laboratory	5	15	3	Connexis
26667	Evaluate and troubleshoot field investigation tests in a civil engineering laboratory	5	15	3	Connexis
26668	Describe and complete asphalt sampling in civil engineering	4	5	2	Connexis
26669	Describe asphalt tests in a civil engineering laboratory	4	20	4	Connexis
26670	Perform asphalt tests in a civil engineering laboratory	4	20	4	Connexis
26671	Explain asphalt tests in a civil engineering laboratory	5	20	3	Connexis

26672	Evaluate and troubleshoot asphalt tests in a civil engineering laboratory	5	12	3	Connexis
26673	Describe bitumen or modified bitumen tests in a civil engineering laboratory	4	15	3	Connexis
26674	Perform bitumen or modified bitumen tests in a civil engineering laboratory	4	15	3	Connexis
26675	Describe and complete bituminous binder sampling in civil engineering	4	8	2	Connexis
26676	Describe bitumen emulsion tests in a civil engineering laboratory	4	10	3	Connexis
26677	Perform bitumen emulsion tests in a civil engineering laboratory	4	12	3	Connexis
26678	Explain bitumen or modified bitumen tests in a civil engineering laboratory	5	20	3	Connexis
26679	Evaluate and troubleshoot bitumen or modified bitumen tests in a civil engineering laboratory	5	10	3	Connexis
26680	Explain bitumen emulsion tests in a civil engineering laboratory	5	8	3	Connexis
26681	Evaluate and troubleshoot bitumen emulsion tests in a civil engineering laboratory	5	7	3	Connexis
26682	Explain bitumen sprayer tests in a civil engineering laboratory	5	10	3	Connexis
26683	Perform bitumen sprayer tests in a civil engineering laboratory	5	15	3	Connexis
26783	Organise the supply and storage of materials for an infrastructure works site	4	5	2	Connexis
26786	Describe quality assurance requirements, and monitor and record quality assurance on an infrastructure works site	4	10	2	Connexis
28278	Plan, joint, and test underground cables, and carry out a rescue from an electricity supply pit	4	10	3	Connexis
28711	Interpret and apply infrastructure plans and set-out information	4	6	2	Connexis
28716	Determine, evaluate, and report on precision and bias in proficiency data in a civil engineering laboratory	5	6	2	Connexis
28717	Apply mathematical methods to testing in a civil engineering laboratory	3	4	2	Connexis
28718	Describe fresh and hardened concrete sampling methods in civil engineering	4	6	2	Connexis
28719	Perform concrete sampling in civil engineering	4	4	2	Connexis
28720	Describe concrete tests in a civil engineering laboratory	4	8	2	Connexis
28721	Perform concrete tests in a civil engineering laboratory	4	16	2	Connexis
28727	Interpret and communicate the requirements of contract documents for infrastructure works supervision activities	4	10	2	Connexis
29227	Demonstrate knowledge of tidal and depth measurement theory	4	12	1	Connexis
29228	Demonstrate knowledge of oceanography for hydrographic surveying operations	4	3	1	Connexis
29229	Demonstrate knowledge of positioning in hydrographic surveying operations	4	5	1	Connexis
29230	Undertake hydrographic survey measurement	4	30	1	Connexis
29231	Demonstrate knowledge of and apply safe working practices in hydrographic surveying operations	4	8	1	Connexis
29406	Set up, check calibration and maintain surveying equipment	4	15	3	Connexis
29486	Demonstrate knowledge and understanding of laws and standards applicable to infrastructure asset management	4	5	1	Connexis

29544	Apply professional body rules and ethics as an infrastructure asset management practitioner	5	6	1	Connexis
29545	Work professionally as an infrastructure asset management practitioner	6	6	2	Connexis
30095	Carry out CCTV inspection of non-pressure water services assets	4	6	1	Connexis
30096	Report on pipe condition for a CCTV inspection of non-pressure water services assets	4	4	1	Connexis
30267	Apply health and safety risk assessment to the supervision of a team.	4	5	1	Skills Org
30423	Participate in assessment processes as a verifier	4	10	1	NZQA
30805	Assess and prepare the site for bitumen surfacing construction	4	25	1	Connexis
30806	Implement, monitor, and complete the work plan for the bitumen surfacing construction site	4	28	1	Connexis
30807	Implement quality processes on the bitumen surfacing construction site	4	25	1	Connexis
30808	Prepare and operate plant and confirm post operational procedures in an infrastructure works environment	3	20	2	Connexis
30809	Support and mentor an infrastructure works team onsite	4	10	1	Connexis
30918	Interpret and confirm job prescription requirements for a forestry earthworks site	4	20	1	Connexis
30919	Construct pipe culverts and structures for a forestry earthworks site.	3	20	1	Connexis
30920	Communicate a work plan and coordinate a team to complete forestry earthworks	4	10	1	Connexis
30921	Coordinate maintenance operations for forestry earthworks	4	10	1	Connexis
30922	Apply environmental requirements on a forestry earthworks site	4	23	1	Connexis
30923	Implement communication requirements on a forestry earthworks site	4	10	1	Connexis
30924	Facilitate quality outcomes in a forestry earthworks environment.	4	10	1	Connexis
31458	Demonstrate knowledge of and participate in incident investigation for infrastructure works	4	4	1	Connexis
31459	Coordinate and monitor the location of services for infrastructure works supervision	4	5	1	Connexis
31460	Monitor and verify the execution of contract requirements for infrastructure works supervision	4	10	1	Connexis
31461	Identify, describe, and complete documentation for infrastructure works supervision	4	5	1	Connexis
31462	Demonstrate knowledge of industry best practice for an infrastructure works sector	4	5	1	Connexis
31516	Carry out excavation and post-excavation reinstatement work for pipeline construction or maintenance	4	10	1	Connexis
31517	Demonstrate knowledge of and select pipes and fittings for pipeline construction and maintenance	4	5	1	Connexis
31518	Demonstrate knowledge of and select methods for pipeline construction and maintenance	4	10	1	Connexis
31519	Demonstrate knowledge of stakeholder engagement for pipeline construction and maintenance projects	4	8	1	Connexis
31520	Demonstrate knowledge of drinking water supply networks for pipeline construction and maintenance	4	6	1	Connexis
31521	Demonstrate knowledge of and maintain water quality in drinking-water supply networks	4	6	1	Connexis
31522	Service or commission, and disinfect, reticulation mains for drinking-water supply networks	4	6	1	Connexis

31523	Install pipes for infrastructure pipelaying	4	11	1	Connexis
31524	Carry out butt fusion jointing on polyethylene pipes for water networks	4	10	1	Connexis
31528	Perform work on live wastewater and stormwater networks	4	10	1	Connexis
31529	Construct a pressure rising main	4	5	1	Connexis
31530	Operate a vacuum loading vehicle for wastewater or stormwater maintenance	3	5	1	Connexis
31531	Carry out rubber ring jointing on pipes for infrastructure works	4	6	1	Connexis
31532	Demonstrate knowledge of fusion jointing of polyethylene pipes for water networks	4	5	1	Connexis
31570	Plan trenchless pipe installation or rehabilitation	4	20	1	Connexis
31571	Manage pipe handling, preparation, and assembly for trenchless installation	4	20	1	Connexis
31572	Demonstrate knowledge of the effects of soil types and ground conditions on trenchless operations	4	6	1	Connexis
31574	Install pipes using trenchless methodology	4	20	1	Connexis
31575	Rehabilitate pipes using trenchless methodology	4	20	1	Connexis
31939	Install, maintain and repair telecommunications transmission systems and services	3	25	1	Connexis
31958	Explain the role of and operate as a TTM worker on the worksite under temporary traffic management	3	5	2	Connexis
31959	Demonstrate knowledge of stakeholders and operational requirements for temporary traffic management	3	5	3	Connexis
31960	Maintain the TTM worksite, install and remove a worksite, and undertake an inspection activity	3	10	3	Connexis
31961	Explain the requirements for the worksite under temporary traffic management	3	5	2	Connexis
31962	Explain the requirements for the worksite under temporary traffic management for a road environment as defined in CoPTTM	3	5	2	Connexis
31963	Operate as a practising Site Traffic Management Specialist (STMS) within a road environment as defined in CoPTTM	3	20	2	Connexis
32175	Act as a safety observer in utility arboriculture	3	3	1	Connexis
32207	Demonstrate knowledge of traffic incidents	3	10	1	Connexis
32209	Complete post-incident traffic response procedures	3	10	1	Connexis
32210	Demonstrate knowledge of a traffic incident response	3	10	1	Connexis
32272	Maintain, deliver and return, and store temporary traffic management equipment used for roadmarking	2	5	1	Connexis
32768	Operate a live bottom trailer on an infrastructure worksite	3	20	1	Connexis