



# **2022 Moderation Plan**

**Mahere Whakaōrite**

Waihanga Ara Rau



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# Contents

<b>1. Purpose and audience (Te kaupapa me te hunga whakarongo)</b>	<b>1</b>
<b>2. Approval (Whakaaetanga)</b>	<b>1</b>
<b>3. Background (Papamuri)</b>	<b>1</b>
<b>4. High Risk and Capstone Standards (Nga Paerewa morearea me te Capstone)</b>	<b>2</b>
<b>5. Providers to be visited (Ko nga kaiwhakarato kia toro atu)</b>	<b>7</b>
<b>6. Standards to be moderated (Nga Paerewa hei Whakaorite)</b>	<b>10</b>
<b>7. Secondary School Cluster Groups (Te Roopu Huinga Kura Tuarua)</b>	<b>25</b>
<b>8. Other relationships (Ētahi atu Whanaungatanga)</b>	<b>27</b>



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## 1. Purpose and audience (Te kaupapa me te hunga whakarongo)

The purpose of this document is to outline the 2022 Moderation Plan for Waihanga Ara Rau. The audience for this process is:

- Waihanga ARA Rau Council
- CE Waihanga Ara Rau
- GM Assurance
- Moderation Leads
- Moderation Specialists

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## 2. Approval (Whakaaetanga)

<b>Approved by</b>	GM Assurance
<b>Reviewed</b>	
<b>Next Review</b>	2/05/2022

<b>Version</b>	<b>Date</b>	<b>Nature of Amendment</b>
1.0	8/02/2022	New document created.

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## 3. Background (Papamuri)

For 2022, the following categories for providers and standards apply:

1. Low focus
2. Medium focus
3. High focus

Waihangā Ara Rau will use a focus category-based approach to determine the mode and frequency of moderation, and the standards moderated for each provider. For 2022, the emphasis will be on undertaking moderation activities on 'high' focus areas, thereby providing the most benefit to providers, learners, and employers.

#### Factors that determine focus areas

The factors below will be considered when determining the focus category for providers and standards for 2022. Any standards that met these criteria, but expire at the end of 2022, will not be moderated.

	Provider	Standards
<b>Focus Factors for 2022</b>	<ul style="list-style-type: none"> <li>• Historical provider information (on action plans or continuous non-compliance)</li> <li>• EER (for non-school providers)</li> <li>• Provider is new</li> <li>• High number of standards reported by provider</li> </ul>	<ul style="list-style-type: none"> <li>• Health and safety focus presented by standard</li> <li>• Legislative requirements and focus presented by the standard</li> <li>• New standards</li> <li>• High and low usage standards</li> <li>• Maintenance of appropriate equipment used for the standard</li> </ul>

For 2022, the Moderation Plan will be actioned on a quarterly basis and will be reviewed at the end of each quarter. A report on the preceding quarter will be completed to outline what has been achieved in that quarter, identify any areas of concern, and identify any changes from the plan for the next quarter.

#### 4. High Risk and Capstone Standards (Nga Paerewa morearea me te Capstone)

At the time of development some standards were identified as high risk, a compliance risk, or a capstone assessment. The expectation of the industry is that the assessment outcome for these standards need to be moderated on an annual basis to ensure that assessment is consistent and that any issues identified are addressed at the time.

Standards with an 'educational' risk have also been identified. This is based on the context of the delivery and assessment for these standards. This risk will be reviewed at the end of 2022.

Number	Title	Level	Credits	Industry	Type of Risk	Qtr
29677	Follow safe workplace practices, and contribute to a health and safety culture, in a BCATS environment	3	2	Carpentry	Educational Risk	All
29684	Undertake a Stage 3 BCATS project	3	12	Carpentry	Educational Risk	All
31812	Complete a BCATS project	2	6	Carpentry	Educational Risk	All
30851	Demonstrate understanding of the principles, features, and construction methods of different building types	4	4	Carpentry	Educational Risk	4
30852	Demonstrate understanding of licensing requirements, and comply with codes and consent processes, for construction work	4	4	Carpentry	Educational Risk	4
30853	Read and interpret working drawings and specifications and apply them to undertake construction projects	4	7	Carpentry	Educational Risk	4
30854	Apply legislative frameworks to construction operations	4	7	Carpentry	Educational Risk	4
30855	Demonstrate understanding of materials used for carpentry work	4	7	Carpentry	Educational Risk	4
30856	Use mathematics for construction	4	4	Carpentry	Educational Risk	4
30857	Plan and communicate for construction processes	4	4	Carpentry	Educational Risk	4
30858	Demonstrate understanding of building and construction science	4	7	Carpentry	Educational Risk	4
30859	Use tools and equipment for carpentry work	4	6	Carpentry	Educational Risk	4
30869	Maintain the professional standards of the construction industry as a carpentry trade professional	4	20	Carpentry	Educational Risk	4
3789	Sling varied regular loads and safely direct a crane during crane operations	3	15	Cranes	Cranes Approved Code of Practice (Cranes ACOP)	2
3790	Use a cab-controlled gantry crane to lift and place regular loads	3	2	Cranes	Cranes ACOP	3

Number	Title	Level	Credits	Industry	Type of Risk	Qtr
3794	Lift and place regular and irregular loads using a tower crane	4	15	Cranes	Cranes ACOP	2
3795	Configure and position a mobile crane, and lift and place regular and irregular loads	4	25	Cranes	Cranes ACOP	3
3800	Use a radio remote or pendant controlled gantry crane to lift and place regular loads	3	10	Cranes	Cranes ACOP	3
16617	Use a truck loader crane to lift and place regular loads	3	15	Cranes	Cranes ACOP	2
20208	Use a self-erecting tower crane to lift and place regular loads	3	10	Cranes	Cranes ACOP	4
20209	Erect, dismantle, and reconfigure a self-erecting tower crane	5	25	Cranes	Cranes ACOP	4
24511	Configure a non-slewing articulated crane, and lift and place regular and irregular loads	4	15	Cranes	Cranes ACOP	3
27676	Configure a lattice boom track crawler crane to lift and place regular and irregular loads	4	25	Cranes	Cranes ACOP	3
28278	Plan, joint, and test underground cables, and carry out a rescue from an electricity supply pit	4	10	Electricity Supply	Capstone	1 and 4 Peer Review 3
29738	Plan, install, and test electrical installation wiring and equipment	5	15	Electricity Supply	Capstone	1 and 4 Peer Review 3
29739	Demonstrate knowledge of the Electricity Act, circuit protection and compliance testing of works or installations	5	10	Electricity Supply	Capstone	1 and 4 Peer Review 3

Number	Title	Level	Credits	Industry	Type of Risk	Qtr
30513	Isolate and reinstate a section of electricity distribution network	4	10	Electricity Supply	Capstone	1 and 4 Peer Review 3
31954	Install and commission network lines, and service a transformer using an access permit	4	10	Electricity Supply	Capstone	1 and 4 Peer Review 3
32255	Demonstrate and apply knowledge of legislation and codes of practice in the electricity supply industry	4	8	Electricity Supply	Capstone	4 Peer Review 3
1178	Follow safe practices in an electrical workplace	2	3	Electrical	High Risk as per CMR	3
2016	Install earthing systems for multiple earthed neutral installations	3	3	Electrical	High Risk as per CMR	1
2021	Plan, install, and commission a power supply on a construction or demolition site	4	2	Electrical	High Risk as per CMR	1
2635	Maintain temperature measurement devices used in industry	4	10	Electrical	High Risk as per CMR	2
5892	Install electronic security surveillance systems	3	7	Electrical	High Risk as per CMR	1
5893	Install electronic security cable support systems and cables	3	10	Electrical	High Risk as per CMR	2
5922	Use cutting tools and machines in the performance of electrical installation and maintenance	2	2	Electrical	High Risk as per CMR	2

Number	Title	Level	Credits	Industry	Type of Risk	Qtr
5931	Select and install domestic or commercial electric switchboards	4	3	Electrical	High Risk as per CMR	2
6061	Performance test and repair faulty radar equipment to unit or component level	4	12	Electrical	High Risk as per CMR	2
6705	Test electrical appliances for safety	3	3	Electrical	High Risk as per CMR	2
8218	Carry out soldering and de-soldering of printed circuit board mounted components and printed circuit board repair	3	8	Electrical	High Risk as per CMR	3
10783	Install, commission, and maintain generating sets driven by combustion engines	5	10	Electrical	High Risk as per CMR	3
10786	Overhaul electromagnetic switching devices	4	3	Electrical	High Risk as per CMR	3
10788	Operate industrial high voltage distribution systems	4	3	Electrical	High Risk as per CMR	2
10789	Install, commission, and maintain an uninterruptible power supply (UPS) system	4	4	Electrical	High Risk as per CMR	3
15869	Install electrical equipment in damp situations	4	3	Electrical	High Risk as per CMR	2
16407	Use and maintain hand and power tools for electrical work	3	3	Electrical	High Risk as per CMR	2
16412	Fault-find, repair, and re-commission electric lighting	3	4	Electrical	High Risk as per CMR	3
16415	Install and commission extra-low voltage equipment	4	3	Electrical	High Risk as per CMR	3



Number	Title	Level	Credits	Industry	Type of Risk	Qtr
22763	Service electrical or electronic goods	4	15	Electrical	High Risk as per CMR	3

## 5. Providers to be visited (Ko nga kaiwhakarato kia toro atu)

The providers below have been prioritised for a visit during 2022. These providers have either been on a previous action plan, have a high level of assessment, or are a new provider for our industry sectors. The focus will be on working with the providers to ensure they have the policies and procedures in place to ensure that assessment is valid, fair, and consistent. Providers will be post-moderated prior to any visit taking place.

The Priority A providers will be visited during 2022 based on the current capacity of Waihanga Ara Rau. Should staffing levels allow a visit to the Priority B providers will be re-evaluated later in 2022.

### Priority A Provider Visits

Number	Provider	Historical Focus (Medium/High)	Post Moderation (Yes/No)	Qtr
9294	AGC Training		Yes	4
6679	AMA Training Group	High	Yes	3
6006	ARA Institute of Canterbury Limited	Medium	Yes	3
8237	Besafe Training Limited	Medium	Yes	3
9294	CC Training Academy Limited	Medium	Yes	2
8018	Cook Islands Tertiary Training Institute (CITTI)	Medium	Yes	3
9392	iSkills	Medium	Yes	2
9436	KIWA Institute of Education		Yes	4
7436	Lines and Cables Training	Medium	Yes	3

Number	Provider	Historical Focus (Medium/High)	Post Moderation (Yes/No)	Qtr
9749	Major Oak Safety Training Limited	High	Yes	3
8925	Manukau Institute of Technology Ltd		Yes	2
8405	Northland Polytechnic Ltd		Yes	2
8256	NZ Safety Blackwoods Worksafe Training	Medium	Yes	3
6012	Otago Polytechnic Ltd		Yes	4
9964	People Potential	High	Yes	3
8489	Personalised Education	Medium	Yes	4
8069	Safety 'n Action Limited	Medium	Yes	4
6045	Site Safe New Zealand Incorporated	Medium	Yes	3
6015	Southern Institute of Technology		Yes	4
6013	Tai Poutini Polytechnic Ltd		Yes	3 and 4
7811	Tana Training	High	Yes	2
7476	Te Aratika Academy	Medium	Yes	2
7856	Te Wananga o Aotearoa		Yes	2
6024	Thoughtplanters Limited	Medium	Yes	4
6660	Transpower	Medium	Yes	3
0873	Unitec New Zealand Limited		Yes	3
8630	Universal College of Learning (UCOL)		Yes	3

Number	Provider	Historical Focus (Medium/High)	Post Moderation (Yes/No)	Qtr
7875	Ventia NZ	Medium	Yes	2
7916	Vertical Horizonz New Zealand Limited		Yes	2
6004	VisionWest Community Trust	Medium		
8476	Waikato Institute of Technology Ltd		Yes	4
8199	Wellington Institute of Technology Limited		Yes	2 and 4
<b>6014</b>	Whitireia Community Polytechnic		Yes	4
7944	WSP New Zealand Limited	Medium	Yes	4

#### Priority B Provider Visits

Number	Provider	Post Moderation (Yes/No)
8270	BOP School of Welding Limited	Yes
8415	Capital Training Limited	Yes
<b>6007</b>	Eastern Institute of Technology	Yes
<b>7391</b>	Employ NZ Limited	Yes
8237	G and H Training Limited	Yes
9660	Gisborne Development Incorporated	Yes

Number	Provider	Post Moderation (Yes/No)
9749	Kershaw Training Enterprises/K2 Corporation	Yes
7674	Responsive Trade Education Ltd	Yes
9392	Skillsec	Yes
6025	Toi Ohomai Institute of Technology	Yes
6009	VSTET Limited	Yes
6030	Goleman Training Limited	Yes
6659	Land Based Training Limited	Yes

## 6. Standards to be moderated (Nga Paerewa hei Whakaorite)

The Priority A standards will be moderated during 2022 based on the current capacity of Waihanga Ara Rau. Should staffing levels allow, the Priority B standards will be considered for quarter 3 and/or 4.

### Priority A

Number	Title	Level	Credits	Qtr
19605	Provide customer service in the glass, joinery, or joinery related industries	3	5	2
25068	Perform basic residential plumbing maintenance under supervision	2	5	3, 4
26778	Demonstrate knowledge of contract drawings, specifications, and quantity lists for a building	4	4	3

Number	Title	Level	Credits	Qtr
30844	Install and flash exterior joinery	4	17	4
30845	Prepare for roof cladding installation, and complete longrun roof cladding installation	4	14	4
01174	Disconnect and reconnect fixed wired electrical appliances or equipment	3	4	1
30846	Install and flash wall claddings	4	24	4
01702	Demonstrate knowledge of, and apply electrical legislation, New Zealand Codes of Practice, and Standards	4	8	1
30847	Install ceiling framing	4	10	4
02020	Plan and install cable support systems	3	3	1
02030	Schedule and manage preventative maintenance for industrial electrical equipment	5	6	2
30848	Demonstrate understanding of columns, posts, beams, and portals	4	7	4
30849	Construct and erect roof framing	4	32	4
30850	Construct and erect wall frames	4	26	4
02159	Demonstrate knowledge of the installation and maintenance of compressed air and vacuum services	3	4	1
30860	Install finishing trim	4	9	4
30861	Install building hardware	4	4	4
30862	Install thermal insulation	4	3	4
30863	Install interior joinery	4	7	4
30864	Install wall and ceiling linings	4	12	4
30865	Install sound control systems for noise reduction and soundproofing	4	5	4
30866	Plan and undertake demolition work	4	5	4
30867	Establish, maintain, and disestablish a construction site	4	9	4

Number	Title	Level	Credits	Qtr
30868	Set out buildings, construct profiles and establish set-out points	4	16	4
30870	Construct concrete foundations and slabs	4	19	4
30871	Construct framed floors and stairs or ramps	4	24	4
30872	Construct retaining walls	4	7	4
31511	Demonstrate knowledge of BCATS industries	2	4	1, 2, 3, 4
31860	Construct and perform routine maintenance on a basic residential timber fence as a BCATS project	2	4	1, 2, 3, 4
15852	Isolate and test low-voltage electrical subcircuits	2	2	1
15862	Demonstrate knowledge of industrial process control	4	2	2
16413	Fault-find, repair, and test electric motors	4	8	2
20858	Base out tube and coupler scaffolding	3	10	2
20859	Base out proprietary frame scaffolding	3	4	2
20860	Base out individual component proprietary scaffolding	3	6	2
21766	Demonstrate knowledge of theory for registration of electricians	4	3	2
21881	Describe ethical and legal considerations for plumbing, gasfitting, or drainlaying services	2	2	2
21893	Install and commission Type 2 gas appliances and equipment	4	19	1
21900	Demonstrate knowledge of safety requirements in gasfitting	3	4	1
24305	Install, test, commission, and maintain solar water heating systems	4	7	2
27352	Demonstrate knowledge of supervision of trainees undertaking prescribed electrical work	4	2	2
29419	Prepare for, install, test, and commission new electrical installations	4	10	3

Number	Title	Level	Credits	Qtr
29420	Fault-find, test, and commission electric motors	4	4	3
29421	Inspect, test, fault-find, and repair fixed-wired electrical appliances and portable appliances	3	3	3
29422	Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations	4	7	3
29424	Install, commission, and maintain emergency lighting systems	4	2	3
29425	Write electrical industry service reports	3	2	3
29429	Demonstrate and apply knowledge of safe practices in an electrical workplace	4	2	4
29435	Install computer networking infrastructure systems	4	4	4
29436	Wire and connect control devices used in the electrical environment	4	4	4
29438	Install, commission, and maintain a power quality protection system	4	4	4
29439	Schedule and manage preventative maintenance for domestic or commercial electrical equipment	4	5	4
29440	Demonstrate knowledge of electric switchboards	4	3	2
29441	Demonstrate and apply knowledge of cable coding, colours, characters, applications, and capacity	4	2	2
29442	Demonstrate and apply knowledge of renewable energy electricity generation systems	4	4	2
29443	Demonstrate and apply knowledge of a.c. motors	4	4	2
29444	Demonstrate and apply knowledge of a.c. electric motor control and installation	4	4	2
29445	Demonstrate and apply knowledge of single-phase and three-phase transformers	4	4	2
29446	Demonstrate knowledge of computer networking infrastructure principles	4	2	4
29466	Demonstrate knowledge of legislation and Standards governing electrical workers	3	2	3
29467	Demonstrate knowledge of the electrical industry ethical work practices	3	2	3

Number	Title	Level	Credits	Qtr
29468	Demonstrate and apply knowledge of safe plant isolation, re-commissioning, and associated electrical testing procedures	3	5	3
29469	Select and install flexible cords and cables	2	4	3
29470	Demonstrate knowledge of electric motor and generator construction and operation	3	2	3
29472	Demonstrate knowledge of electric lighting systems	3	6	3
29473	Demonstrate knowledge of single-phase and three-phase transformers	3	3	3
29478	Demonstrate knowledge of electrical installations in special situations	4	6	3
29480	Demonstrate knowledge of electric circuit design, control, and protection	3	6	4
29481	Apply knowledge of lighting installation, testing, repair, and disposal	3	5	4
29482	Demonstrate and apply knowledge of special power supplies	3	3	4
29483	Demonstrate and apply knowledge of single-phase and three-phase rotating machines	3	4	4
29557	Apply fundamental techniques for identifying and locating faults in electrical fittings or systems	3	4	4
30527	Make as-built drawings and record variations to job specifications for plumbing jobs	4	5	4
30528	Make as-built drawings and record variations to job specifications for gasfitting jobs	4	5	4
30529	Make as-built drawings and record variations to job specifications for drainlaying jobs	4	5	4
30531	Install and maintain foulwater drains	4	5	4
30534	Demonstrate knowledge of wet and dry inspection chambers	3	2	4
30535	Install inspection chambers	3	2	4
30536	Demonstrate knowledge of the regulatory framework for plumbing, gasfitting, and Drainlaying	4	5	4
30537	Work in plumbing, gasfitting, or drainlaying with consideration of other trades and services	4	5	3



Number	Title	Level	Credits	Qtr
30539	Install, commission, and maintain on-site wastewater treatment systems	4	8	2
30550	Demonstrate knowledge of the installation, commissioning, and maintenance of hot water supply systems	4	10	1
30551	Position, install, commission, and maintain low pressure hot water supply systems	4	7	2
30552	Position, install, commission, and maintain mains pressure hot water supply systems	4	6	3
30554	Select, position, install, connect, commission, and maintain sanitary appliances and fixtures	4	6	4
30557	Select, describe, use, and maintain tools for plumbing and drainlaying projects	2	4	3
30575	Demonstrate knowledge of maintaining structural integrity and weather tightness of building penetrations	4	8	2
30577	Demonstrate knowledge of the installation and maintenance of stormwater handling systems	4	9	2
30578	Install and maintain stormwater handling systems	4	4	2
30579	Install and complete wingwall structures for stormwater handling systems	4	2	1
30600	Demonstrate knowledge of pumps used in drainlaying systems	4	3	2
30601	Install pumps for drainlaying systems	4	2	3
30604	Demonstrate knowledge of pumps used for water supply and disposal systems in plumbing	4	3	4
30605	Demonstrate knowledge of installing, securing, and maintaining water supply pipework in buildings	4	7	3
30606	Determine water supply requirements in buildings, and install, secure, and maintain pipework	3	6	2
30609	Demonstrate knowledge of alternative water supply and water storage for sanitary plumbing	4	3	1
30612	Demonstrate knowledge of trade waste interceptor traps	3	4	2
30613	Install food grease interceptor traps	3	2	3
30614	Demonstrate knowledge of the installation and maintenance of water mains and water supply systems	4	4	4
30615	Install and maintain water mains and water supply systems	4	4	3

Number	Title	Level	Credits	Qtr
30616	Demonstrate knowledge of water, material properties, and of less frequently used materials in plumbing and Drainlaying	3	3	2
30657	Isolate low-voltage electrical subcircuits and perform basic checks and tests to confirm isolation	2	1	1
30658	Demonstrate knowledge of fundamental electrical safety in the workplace	2	2	2
30692	Perform basic calculations used in a given trade situation	2	2	3
00750	Demonstrate knowledge of electrical test instruments and take measurements	2	2	1
24360	Demonstrate knowledge of timber and other construction materials used in BCATS projects	2	5	
05926	Demonstrate knowledge of programmable logic controllers (PLCs)	4	3	1
05932	Demonstrate knowledge of protection of circuits from static electricity and magnetic interference	2	2	1
15870	Inspect and test an electrical installation for compliance with AS/NZS 3000	4	5	2
29471	Demonstrate knowledge of electric switchboards and lighting and power circuits	3	2	3
29474	Demonstrate and apply knowledge of electrical fittings and components and their installation	3	6	3
29476	Demonstrate and apply knowledge of capacitance, inductance, power factor, and power factor correction	3	7	3
29479	Draw and explain electrical diagrams	3	4	3
29484	Demonstrate knowledge of theory and practice for electrical workers	3	1	4
5236	Use Pythagoras' theorem and trigonometry to solve problems related to right-angled triangles in the workplace	1	1	2
6469	Maintain small machinery used on infrastructure works sites	2	2	1, 2, 3
6472	Carry out manual excavation for infrastructure works	1	2	1,2,3

Number	Title	Level	Credits	Qtr
6475	Describe and complete work records for infrastructure works	2	2	1,2,3
6477	Identify, hand spread, and assist in compacting materials for infrastructure works	2	3	1,2,3
6479	Locate and identify services for infrastructure works	3	5	3
10507	Use personal protection equipment within an electricity supply environment	2	4	1,2,3
10508	Identify electricity systems in preparation for work	2	6	1,2,3
10509	Climb and work on electricity network structures	4	6	1,2,4
10512	Joint electricity network overhead conductors	3	4	4
10513	Conduct an inspection of electrical lines	4	6	4
10521	Install and replace electricity network pole structures	4	10	1,2
10522	Install low voltage electricity network overhead conductors	4	8	4
10526	Operate ground and structure mounted electrical equipment associated with electric lines or cables up to 66kV	3	4	1,4
10529	Dismantle electricity network lines and structures	4	6	1,4
10531	Remove and install line hardware and equipment on structures using live line hot stick up to 66kV	4	20	2
10535	Remove and install electricity network pole structures using live line hot stick up to 66kV	4	20	1,2
10536	Make and break high voltage connections up to 33kV using live line hot stick procedures	4	10	1,2
10537	Make and break live line connections using live line glove and barrier procedures up to 33kV	4	10	1,2
10538	Inspect, test, and clean live line tools and equipment	4	6	1,2
10540	Replace and install hardware on structures using live line glove and barrier procedures up to 33kV	5	30	2
10541	Remove and install pole structures using live line glove and barrier procedures up to 33kV	5	20	2

Number	Title	Level	Credits	Qtr
10542	Demonstrate knowledge of live line theory and procedures	4	10	1,2
10543	Plan, identify and protect underground services during excavation and reinstatement	3	10	1,2
10544	Install electrical lines and cables in an electricity supply environment	4	6	1
10545	Terminate and joint de-energised low voltage polymeric insulated power cables	3	6	2
10981	Fit mechanical couplings in a gas network	3	4	1
10984	Cut, thread, and join steel pipes in a gas network	3	3	1
10988	Insert a polyethylene pipe into a casing pipe in a gas network	4	6	1
10995	Draft information for as-built drawings for a gas network	3	5	1
11327	Identify community concerns and respond to enquiries relating to gas industry operations	3	4	1
11328	Gain approvals and implement notification procedures for works in a gas network	3	3	1
12295	Apply and remove earths from conductors on electricity supply networks	4	4	2
12296	Apply earths to and remove earths from electrical conductors, plant, and equipment	3	2	1
12300	Demonstrate knowledge of electricity industry safety statutes and codes	2	6	All
12387	Operate electrical switchgear in the electricity supply industry	4	10	1
12502	Use pressure gauges and recorders in a gas distribution network	2	3	1
12507	Use hand-held gas leakage detection equipment in a gas network	3	5	1
12518	Check and maintain in-line valves in a gas pipeline	4	3	2
12526	Use fresh air distance breathing apparatus in a gas network	3	3	2
14272	Carry out maintenance and/or acceptance tests on high voltage circuit breakers	4	6	4
14287	Use and maintain test instruments used within the high voltage electrical industry	3	4	4

Number	Title	Level	Credits	Qtr
14328	Carry out in-service visual inspections on substation equipment for safe operation	3	4	2
14330	Install substation earthing and bonding system	3	3	1
16701	Demonstrate knowledge and skills for driving on a road for endorsement W (wheels)	3	3	All
16702	Demonstrate knowledge and skills for driving on a road for endorsement R (rollers)	3	3	All
16703	Demonstrate knowledge and skills for driving on a road for endorsement T (tracks)	3	3	All
17025	Carry out a rescue from an electrical structure	3	2	1,2,3
17026	Demonstrate knowledge of safe entry into restricted areas in an electricity supply environment	2	6	All
17027	Demonstrate the requirements for holding access permits for work on electrical lines, cables, and equipment	3	4	2
17310	Operate a hydraulic excavator on infrastructure works sites	3	20	2
17327	Communicate with stakeholders on an infrastructure worksite	2	3	1,2,3
17632	Overhaul distribution pole and tower hardware in electricity networks up to 66 kV	4	8	2
17890	Undertake sampling and site analysis for water treatment	3	6	3
18026	Carry out a rescue from an electricity supply services pit	3	2	1,2
18030	Operate mobile elevating work platforms to prune trees around power lines	3	5	2,3
18037	Plan a confined space entry in the electricity supply industry	4	4	3
18038	Demonstrate knowledge of and apply health and safety in the electricity supply environment	3	5	1,2,3
18272	Operate a mobile elevating work platform (MEWP) in an electricity supply environment	3	5	1,3
18276	Operate light lifting and rigging equipment in the electricity supply environment	2	2	2
19205	Demonstrate knowledge of pathogens, diseases, and their control in water services reticulation	3	5	1
19207	Work in a confined space in the infrastructure industry	3	6	All

Number	Title	Level	Credits	Qtr
19675	Describe and operate a road saw	3	4	1
20071	Joint live LV polymeric insulated power cables in the electricity supply industry	4	10	3
20072	Terminate live LV polymeric insulated power cables in the electricity supply industry	4	10	3
20073	Demonstrate knowledge of the installation of power cables	2	2	1
20092	Demonstrate knowledge of electricity transmission and distribution plant and equipment	2	4	2,3
20095	Respond to substation secondary systems alarms and indications in the electricity supply industry	4	4	2
20414	Carry out condition assessments of electricity supply pole structures	4	6	2
20419	Use a conductor trolley on de-energised transmission line conductors	4	6	2
20423	Install high voltage electricity network overhead conductors	4	8	2
20535	Joint high voltage paper insulated cable to polymeric insulated cable up to 22kV using a transition jointing method	4	15	4
20590	Test gas for odour level and odorant concentration in a gas network	3	4	2
20618	Demonstrate knowledge of switching in the electricity supply industry	2	2	4
20866	Work safely on an infrastructure works site	3	7	3
20868	Demonstrate knowledge of emergency response in the infrastructure works industry	2	3	1,2
20869	Demonstrate knowledge of notifiable works and work permits typical of infrastructure works sites	3	3	2,3
20870	Describe protection of health, safety, and environment in the civil infrastructure industry	3	7	3
20877	Demonstrate knowledge of working safely at sites under temporary traffic management	2	2	2,3
20878	Assist with temporary traffic management for low volume and Level 1 roads	2	1	2,3
22279	Operate a skid steer on infrastructure works sites	3	10	1

Number	Title	Level	Credits	Qtr
22283	Demonstrate knowledge of occupational areas and structures in the New Zealand infrastructure works industry	2	2	1,2
23086	Lay a polyethylene gas pipeline	3	6	2
23285	Use and care for hand tools used for infrastructure works	2	2	1,2
23637	Operate a telehandler on infrastructure works sites	3	20	1,2
24152	Operate a cable spiking and cutting tool	3	2	4
24749	Erect emergency transmission structures	4	10	2
24927	Describe, and undertake sampling and testing procedures for wastewater treatment	4	7	3
25124	Demonstrate knowledge of domestic wastewater treatment processes	4	15	3
25125	Describe domestic wastewater land application systems, and their selection, for site and soil characteristics	5	8	3
25126	Demonstrate knowledge of hydraulics and pump types and fittings for on-site domestic wastewater treatment systems	4	6	3
25127	Carry out a site and soil evaluation for an on-site domestic wastewater system	6	12	3
25128	Design an on-site domestic wastewater system, and describe regulatory requirements	6	16	3
25129	Describe package treatment, and wastewater land application systems	4	4	3
25610	Demonstrate knowledge of equipment and operations for jointing polyethylene pipe for a distribution network	3	5	2
26705	Carry out tree work in the insulated tool zone around power lines	4	5	3
26717	Use a generator on an infrastructure works site	2	1	2
26718	Use a compressor on an infrastructure works site	2	1	3
26720	Describe health, safety, and environmental care at an infrastructure works site	2	3	1,2

Number	Title	Level	Credits	Qtr
27201	Mitigate environmental damage caused by a contamination incident	3	3	3
27500	Operate compaction equipment for infrastructure works	3	4	3
28109	Demonstrate and apply knowledge of legislation and codes of practice to register as a line mechanic or cable jointer	4	8	2
28112	Operate and store machinery, plant, and equipment in an electricity network environment	4	6	2,3
28493	Demonstrate knowledge of vegetation and tree work near power lines and cables	3	4	3
28494	Work on vegetation and trees near power lines and cables and demonstrate emergency procedures in utility arboriculture	4	8	3
28495	Demonstrate knowledge of the requirements for permits for work near power lines and underground power cables	3	4	3
28715	Load, secure, and transport infrastructure works materials, small plant, and equipment	3	2	3
29965	Demonstrate knowledge of small drinking-water supplies	3	6	3
30367	Demonstrate knowledge of gas, and the hazards and safety controls for working with live gas	3	6	3
30370	Demonstrate knowledge of gas transmission pipelines and distribution networks	3	6	3
30523	Demonstrate knowledge of telecommunications optical fibre network infrastructure	3	15	3
30524	Install, maintain, and repair telecommunications optical fibre network infrastructure	3	25	3
30525	Investigate, test, locate and repair faults in the telecommunication's optical fibre network	3	10	3
31245	Plan for and lift, move, and place loads using mobile plant, in infrastructure works environments	3	5	1,2
31448	Operate and maintain small plant for infrastructure works	3	10	3
31956	Replace and install hardware on live low voltage structures	4	10	1
31958	Explain the role of and operate as a TTM worker on the worksite under temporary traffic management	3	5	2,3



Number	Title	Level	Credits	Qtr
31959	Demonstrate knowledge of stakeholders and operational requirements for temporary traffic management	3	5	2,2
31960	Maintain the TTM worksite, install and remove a worksite, and undertake an inspection activity	3	10	4
31961	Explain the requirements for the worksite under temporary traffic management	3	5	4
31962	Explain the requirements for the worksite under temporary traffic management for a road environment as defined in CoPTTM	3	5	3
32036	Demonstrate knowledge of cathodic protection and carry out a reading in a gas network	3	5	3
32040	Collect and record gas metering data	3	4	3
32042	Describe gas metering equipment used in a gas network	3	3	3
32105	Demonstrate knowledge of personal protection equipment in the gas industry	3	2	3
29474	Demonstrate and apply knowledge of electrical fittings and components and their installation	3	6	3
29476	Demonstrate and apply knowledge of capacitance, inductance, power factor, and power factor correction	3	7	3
15852	Use, install and disestablish temporary proprietary height safety systems when working at height	3	4	1
23229	Use safety harness system when working at height	3	4	1
23960	Assess the worksite, prepare, and operate a scissor lift elevating work platform (EWP)	3	3	1
23962	Assess the worksite, prepare, and operate a self-propelled boom lift elevating work platform (EWP)	4	5	1
23966	Describe types of elevating work platforms (EWPs), and legislative requirements for their use	3	2	1
23961	Assess the worksite, prepare, and operate a truck-mounted elevating work platform (EWP)	3	4	2
23963	Assess the worksite, prepare, and operate a trailer-mounted elevating work platform (EWP)	3	4	2
21883	Demonstrate knowledge of working in gas contaminated environments in plumbing, gasfitting, or drainlaying	2	3	3
30718	Demonstrate knowledge of concepts and principles, and the properties of less frequently used materials for gasfitting	4	5	1

Number	Title	Level	Credits	Qtr
23964	Assess the worksite, prepare, and operate a vertical lift elevating work platform (EWP)	3	2	1
03788	Demonstrate knowledge of crane types, and safe practices required in the crane industry	3	4	3
23232	Develop a rescue plan for recovery of a suspended individual after a fall	4	5	3
23231	Develop a safety plan to manage risks when individuals are working at height and fall prevention strategies are required	4	5	2
23716	Erect and dismantle vessel scaffolding	4	10	2
23717	Erect and dismantle birdcage scaffolding	4	10	2
23718	Erect and dismantle catch fans	4	6	2
23719	Erect, operate, and dismantle proprietary winches on scaffolding	4	6	2
23720	Erect, operate, and dismantle mast climbers	4	6	2
28349	Demonstrate knowledge of theory for registration of drainlayers	4	10	2
29434	Install and programme a PLC	4	2	3
30607	Demonstrate knowledge of the installation and maintenance of solid fuel space heaters and flues	4	3	3
30072	Demonstrate and apply knowledge of slinging regular loads safely	3	14	2
25272	Demonstrate knowledge of rainwater handling systems and discharge factors on roofs	3	4	1
25279	Demonstrate and apply knowledge of metal flashings and penetrations	4	10	1
26606	Erect and dismantle simple cantilevers from an existing scaffold	4	6	1
19241	Demonstrate knowledge of safety and compliance for industrial measurement and control systems	5	10	2

## Priority B

Number	Title	Level	Credits
29679	Develop and use BCATS project documentation for a Stage 3 BCATS project	3	8
29680	Communicate and work collaboratively in a Stage 3 BCATS project	3	5
15844	Select and install flexible cords	3	2
19359	Identify, inspect, and maintain height safety equipment	3	3
29427	Install, test, and commission electrical appliances	4	2
29437	Analyse building and plant energy efficiency	4	3
30020	Demonstrate knowledge of roofing workplace safety considerations	4	4
30530	Demonstrate knowledge of the installation and maintenance of foulwater drains	4	10
30533	Position, excavate, and backfill excavations and trenches for plumbing, gasfitting, or Drainlaying	3	4
17022	Demonstrate knowledge of soft flooring products	3	8
17023	Demonstrate knowledge of resilient flooring products	3	8
31512	Demonstrate knowledge of BCATS trades involved in the construction of a residential building	1	2
02139	Soft solder metal joints	2	3
05907	Work safely with electrical equipment	2	1
18240	Demonstrate knowledge of basic electronic components	2	5
25413	Draw and form simple patterns for plumbing and gasfitting sheet metal components	2	3

## 7. Secondary School Cluster Groups (Te Roopu Huinga Kura Tuarua)

The Priority A Cluster Groups have been selected based on fact that the Cluster Groups were unable to happen during 2021 due to Covid restrictions. Should staffing levels allow, the Priority B Cluster Groups will be considered for quarter 3 and/or 4.

All of the secondary school clusters are involved with the delivery of carpentry standards in a secondary school environment. Apart from the peer moderation of standards during these meetings, there is a lot of value added from the sharing of knowledge around delivery and assessment from the teachers within their own contexts.

There are 300 plus secondary schools involved in the various cluster groups.

#### Priority A

Cluster	Schools	Qtr
Hamilton 1	Fairfield College, Fraser High School, Huntly College, Morrinsville College, Ngaruawahia High School, Raglan Area School, St Paul's Collegiate School, Te Kauwhata College	2
Hamilton 2	Cambridge High School, Hamilton Boys' High School, Hillcrest High School, Matamata College, Melville High School, St John's College (Hamilton), St Peter's School (Cambridge), Te Awamutu College	2
Hawkes Bay	Central Hawke's Bay College, Flaxmere College, Hastings Boys' High School, Havelock North High School, Karamu High School, Napier Boys' High School, St John's College (Hastings), Tamatea High School, Taradale High School, William Colenso College.	2
Wairarapa	Chanel College, Kuranui College, Makoura College, Ponatahi Christian School, Rathkeale College, Tararua College, Wairarapa College	3
Porirua/Kapiti	Aotea College, Bishop Viard College, Kapiti College, Mana College, Paraparaumu College, Porirua Activity Centre, Porirua College, Tawa College	2
Wellington/Hutt Valley	Heretaunga College, Naenae College, Newlands College, Onslow College, Scots College, St Bernard's College, St Patrick's College (Silverstream), St Patrick's College (Wellington), Taita College, Upper Hutt College, Wa Ora Montessori School, Wellington College, Wellington High School	2
South Otago/Northern Southland	Blue Mountain College, Central Southland College, Gore High School, Lawrence Area School, Northern Southland College, South Otago High School, St Peter's College (Gore), The Catlins Area School	1
Invercargill	Aparima College, James Hargest College, Menzies College, Southland Boys' High School, Verdon College, Waiau Area School	1
Individual Visit	Rongotai College	2
Individual Visit	Rangiora New Life School	3

## Priority B

Cluster	Cluster
Northland 1	Palmerston North
Northland 2	Nelson/Marlborough
North Shore	Westland
North Canterbury	Christchurch 1
Auckland Central 1	Christchurch 2
Auckland Central 2	South Canterbury/North Otago
Auckland South 1	Dunedin
Auckland South 2	Central Otago
Thames/Coromandel	Whanganui
Tauranga	Gisborne
Rotorua	Taranaki
Taupo	

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## 8. Other relationships (Ētahi atu Whanaungatanga)

During the establishment phase of Waihanga Ara Rau, there are limited resources available to undertake meaningful assurance with all of the providers who deliver and assess the 3,145 standards that fall under the coverage of Waihanga Ara Rau. There were over 439,002 assessment results reported against these standards.

There are providers, some of whom are former TITO's, that we know have assurance systems in place that are trusted and Waihanga Ara Rau can work with these providers to ensure that our assurance functions are met. Waihanga Ara Rau will enter into an MOU with these providers that outlines the requirements of both parties, the result being that Waihanga Ara Rau will not externally moderate these providers in 2022.

The providers or entities with whom Waihanga Ara Rau has entered into an MOU with for 2022 are listed in the table below.

<b>Number</b>	<b>Provider</b>	<b>MOU expiry date</b>
6044/2	Te Pūkenga - Connexis	31/03/2023
6044/4	Te Pūkenga - BCITO	31/03/2023
6044/5	Te Pūkenga - MITO	31/03/2023
7969	Vocational Engineering Education NZ (formally NZBED)	31/03/2023