

GasNZ Reticulated Gas - Competence Protocol GIP009 - Appendix 3		Version 4 - March 2024												
CoC No.	CoC Title & Permitted Activities	Pre-requisite Requirements	Supervision Required	Renewal Period	Reference	Knowledge and Skills	US Level	US Credits	US in Gas Qual?	US Standard Setting Body	US Reviewed?	Learning & Assessment Resources		Notes
Unique Identifier for CoC Card	The type of work being undertaken and a description of the activities the holder is authorised to do or not do.		Refer GIP009 for more information.	How often reassessment is required.	Unique identifier for knowledge.	The training and assessment required to achieve the competency. This primarily includes unit standards. Alternatives are accepted where a clear alignment to the framework is proven.						Available?	Source	
1	Authorised Restricted Access (Distribution)													
	Permits the holder to carry out: Specified work that does not affect the operation of the gas distribution assets such as meter readings, site inspection, painting, vegetation control, reinstatement works, site surveying and site housekeeping. These works must be authorised and approved by the asset operator. Specialist works such as steel welding, weld inspections, non-destructive testing etc. on the gas distribution assets while the site is under the supervision of a holder of a relevant CoC for the works being undertaken.	Holders can also demonstrate competence for the specified or specialist works being carried out.	Indirect	2 Yearly		Completion of an approved Distribution Network Induction Course.	NA	NA		NA	NA	Yes		
2	Safety Induction													
	Permits the holder to assist and work under the direct supervision at all times of a person who holds a relevant CoC for the works being undertaken.	None	Direct	2 Yearly	497	DKO workplace health & safety	1	3	No	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
	This CoC provides new entrants to the industry with the minimum basic safety skills to aid keeping safe within the work place while under direct supervision. It is anticipated that the holder of the Safety Induction will progress to the Safe Working CoC as soon as practicable. It is valid for a maximum of 2 years.				17593	Apply safe work practices	2	4	No	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
					32105	Use PPE in a gas network	2	2	L3	Waihanga	Yes	Yes	MITO	Alternate 9631
3	Safe Working													
	Permits the holder to assist and work under the direct supervision of a person who holds a relevant CoC for the works being undertaken. This CoC is a prerequisite for all other CoC's.	Safety Induction	Direct	2 Yearly	3271	Suppress fire with hand extinguishers	2	1	L3	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
					6401	Provide First Aid	2	1	No	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
					6402	Provide basic life support	1	1	No	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
					18426	Demonstrate knowledge of hazards associated with confined spaces	3	4	L3	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
					30265	Apply health and safety risk assessment to a job role	3	8	L3	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
4	Gas Foundation													
	Permits the holder to assist and work under the indirect supervision of a person who holds a relevant CoC for the works being undertaken. The holder may also carry out additional tasks that they hold a relevant unit standard for as authorised by the asset operator but excludes carrying out any tasks that the holder does not hold a relevant unit standard for.	Safety Induction Safe Working	Indirect	2 Yearly	10995	Draft information for as-built drawings for a gas network	3	5	L3	Waihanga	Yes	Yes	MITO	
					11327	Respond to concerns/enquiries to industry operations	3	4	L3	Waihanga	Yes	Yes	MITO	
					11328	Gain approvals/notifications for works	3	3	L3	Waihanga	Yes	Yes	MITO	
					12502	Use pressure gauges and monitoring equipment	3	4	L3	Waihanga	Yes	Yes	MITO	
					12507	Use hand held gas leakage detection equipment	3	5	L3	Waihanga	Yes	Yes	MITO	
					17596	Demonstrate knowledge of safety observer responsibilities in the workplace	3	8	L3	Toitū Te Waiora	NA	Yes	MITO	
					31957	DKO working safely as a general worker on a worksite under temporary traffic management	2	3	L3	Waihanga	NA	Yes	Connexis	Or NZTA approved Traffic Controller Card
					25510	Operate an atmospheric testing device to determine a suitable atmosphere exists to work safely	3	4	L3	Toitū Te Waiora	NA	Yes	PTE	PTE such as Vertical Horizonz or besafe
					30367	DKO gas & risks & safety precautions for working with live gas	3	6	L3	Waihanga	Yes	Yes	MITO	Replaced 12442, 12524 & 17690
					30370	DKO gas transmission pipelines & distribution networks	3	6	L3	Waihanga	Yes	Yes	MITO	Replaced 12520, 12521, 19541, 19542
					30380	Interpret & use gas terminology, signage, plans and drawings to identify assets in a gas network	3	6	L3	Waihanga	Yes	Yes	MITO	Replaced 9543, 10994, 11326
					32040	Collect and record gas metering data	3	4	L3	Waihanga	Yes	Yes	MITO	Ex 23084
					32042	Describe gas metering equipment in a gas network	3	3	L3	Waihanga	Yes	Yes	MITO	Based on 12450
5	Replace GMS < 25m³/hour													
	Permits the holder to install or change a low capacity GMS up to 25m ³ /hour capacity. Includes disconnect and reconnect meters in accordance with GIP 001 Gas Industry Disconnection and Reconnection Protocol	Safety Induction Safe Working	Unsupervised	3 Yearly	11328	Gain approvals/notifications for works	3	3	L3	Waihanga	Yes	Yes	MITO	
					12502	Use pressure gauges and monitoring equipment	3	4	L3	Waihanga	Yes	Yes	MITO	
					12507	Use hand held gas leakage detection equipment	3	5	L3	Waihanga	Yes	Yes	MITO	
					30367	DKO gas & risks and safety precautions for working with live gas	3	6	L3	Waihanga	Yes	Yes	MITO	Replaced 12442, 12524 & 17690
					30382	Install & change low capacity gas measurement systems	4	8	L4	Waihanga	Yes	Yes	MITO	Replaced 12510 and 23085
					30383	Restore supply and recommission a low capacity installation after an interruption.	4	10	L4	Waihanga	Yes	Yes	MITO	Replaced 19550 and 23089
					32040	Collect and record gas metering data	3	4	L3	Waihanga	Yes	Yes	MITO	Ex 23084
					32041	Demonstrate knowledge of standard gas pressure control equipment and metering stations	3	8	L4	Waihanga	Yes	Yes	MITO	Based on 23088
					32042	Describe gas metering equipment in a gas network	3	3	L3	Waihanga	Yes	Yes	MITO	Based on 12450

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6	PE Pipelaying Only													
	Permits the holder to install PE pipe, tracer wire and warning tape using open trench, open cut, thrust or drill methods. An additional endorsement is required to perform pipe jointing: E1: PE Pipe Jointing Electro fusion E2: PE Pipe Jointing Butt fusion	Safety Induction Safe Working	Unsupervised	3 Yearly	10995 10988 11328 20869 23086 25610 30380 31448 31957 32035	Draft information for as built drawing in a gas network Insert PE pipe for a trenchless operation in a gas network Gain approvals/notifications for works DKO notifiable works and work permits typical of infrastructure work sites Lay a PE gas pipeline Demonstrate knowledge of polyethylene pipe, fittings and fusion jointing for a gas network Interpret & use gas terminology, signage, plans and drawings to identify assets in a gas network Operate and maintain small plant for infrastructure works DKO working safely as a general worker on a worksite under temporary traffic management Demonstrate and apply knowledge of excavation, backfill and compaction for a gas network	3 4 3 3 3 3 3 3 2 3	5 6 3 3 6 6 6 10 3 10	L3 L4 L3 L3 L3 L3 L3 L3 L3 L3	Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga	Yes Yes Yes NA Yes Yes Yes NA Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	MITO MITO MITO Connexis MITO MITO MITO Connexis PTE MITO	Renamed Replaced 9543, 10994, 11326 Replaced 20877 and 20878. Or NZTA Approved Traffic Controller Card.
7	Construct PE Services													
	Permits the holder to construct, connect, test, commission, decommission and disconnect PE Services. Includes install and change low capacity GMS. An additional endorsement is required to perform pipe jointing: E1: PE Pipe Jointing Electro fusion E2: PE Pipe Jointing Butt fusion	Safety Induction Safe Working Gas Foundation	Unsupervised	3 Yearly	10975 10981 10988 23086 25610 30382 31448 32035 32336 32332 32338	Squeeze off a polyethylene pipe in a gas network Fit mechanical couplings in a gas network Insert PE pipe for a trenchless operation in a gas network Lay a polyethylene gas pipeline Demonstrate knowledge of polyethylene pipe, fittings and fusion jointing for a gas network Install & change low capacity gas measurement systems Operate and maintain small plant for infrastructure works Demonstrate and apply knowledge of excavation, backfill and compaction for a gas network Connect, test, purge and commission a polyethylene (PE) service in a gas network Decommission and disconnect a gas main or service in a gas network Access a gas pipe inside a casing pipe in a gas network	4 3 4 3 3 4 3 3 4 4 4	6 4 6 6 6 8 10 10 8 6 5	L4 L3 L4 L3 L3 L4 L3 L3 L4 L4 L4	Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga	Yes Yes Yes Yes Yes Yes NA Yes New unit New unit New unit	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	MITO MITO MITO MITO MITO MITO Connexis MITO MITO MITO MITO	Renamed Replaced 12510 and 23085 Based on 19547
8	Construct PE Mains													
	Permits the holder to construct, connect, test, commission, decommission and disconnect PE Mains using squeeze off or valve connections. The following additional specialist operations associated with PE Mains can only be carried out by personnel deemed competent by the asset operator: Bag Stop PE Stopple Personnel carrying out hydrostatic testing for PE Mains must hold the Hydrostatic Endorsement (E3) or be deemed competent by the asset operator.	Safety Induction Safe Working Gas Foundation Construct PE Services Construct PE Mains	Unsupervised	3 Yearly	30371 30374 30377 32335 32339	DKO flow stopping in a gas network Carry out a flow stopping operation using squeeze-offs Demonstrate knowledge of pigging Test, connect, purge and commission a polyethylene (PE) main in a gas network Internally clean a gas pipe in a gas network	3 4 3 4 4	4 10 4 12 6	L3 L4 L3 L4 L4	Waihanga Waihanga Waihanga Waihanga Waihanga	Yes Yes Yes New unit New unit	Yes Yes Yes Yes Yes	MITO MITO MITO MITO MITO	Replaced 25607 and 25611 Based on 19546 New unit
9	Construct Steel Mains & Services													
	Permits the holder to construct, connect, test, commission, decommission and disconnect Steel Mains and Services using valve connections. The following additional specialist operations associated with Steel Mains can only be carried out by personnel deemed competent by the asset operator: Bag Stop Stopple Personnel carrying out the following activities must hold the appropriate endorsement or be deemed competent by the asset operator: E3: Hydrostatic Testing E4: Hot Tap Steel Pipe E5: Install CP Test Points	Safety Induction Safe Working Gas Foundation Construct PE Services Construct PE Mains	Unsupervised	3 Yearly	9550 10982 10984 10993 32036 32337	Perform pipe coating and wrapping on a steel pipeline Describe steel welding in a gas network Cut, thread, and join steel pipes in a gas network Use a Holiday detector on a steel gas pipe Demonstrate knowledge of cathodic protection and carry out a reading in a gas network Test, connect, purge and commission steel mains or services in a gas network	4 4 3 3 3 4	3 5 3 4 5 12	No No L3 No L3 No	Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga	Yes Yes Yes Yes Yes New unit	Yes Yes Yes Yes Yes Yes	MITO MITO MITO MITO MITO MITO	Based on 9575 Replaced 19546 & 19547. Scheduled for completion in 2023.
10	Standard Pressure Control													
	Permits the holder to install, commission, maintain, fault-find and decommission standard pressure control installation. Includes Pressure Reducing Stations (PRS) and Gas Measurement Systems (GMS) and electronic flow correctors for single point of supply installations with 2-stage pressure reduction and installations with a meter bypass stream that is normally closed. The following installations are excluded: District Regulator Stations Twin Stream Configurations Active/Monitor Configurations	Safety Induction Safe Working Gas Foundation	Unsupervised	3 Yearly	5929 or 33255 10984 12456 19555 19557 19560 30382 30383 32041	DKO hazardous areas and their electrical requirements Demonstrate knowledge of hazardous areas Cut, thread, and join steel pipes in a gas network Install, commission, maintain electronic flow correctors Assemble, install, test, and commission a standard gas pressure control and metering station. Perform maintenance on standard gas pressure control and metering station. Troubleshoot and rectify faults on a standard gas pressure control and metering station. Install & change low capacity gas measurement systems Restore supply and recommission a low capacity installation after an interruption Demonstrate knowledge of standard gas pressure control equipment and metering stations	4 4 3 4 4 4 4 4 3	3 4 6 15 10 15 8 10 8	L4 L4 L4 L4 L4 L4 L4 L4 L4	Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga Waihanga	NA Yes Yes Yes Yes Yes Yes Yes Yes	Yes In progress In Progress Yes Yes Yes Yes Yes Yes	PTE MITO MITO MITO MITO MITO MITO MITO MITO	Resources are available for 5929. Resources for US33255 scheduled for completion in 2023. Changed to Level 4. Resources scheduled for completion in 2023. Replaced 12510 and 23085 Replaced 19550 and 23089 Based on 23088

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11	Complex Pressure Control													
	Permits the holder to install, commission, maintain, fault-find and decommission all Distribution pressure control installations with an inlet pressure up to 2,000kpa.	Safety Induction Safe Working Gas Foundation Standard Pressure Control	Unsupervised	3 Yearly	30384	Assemble, install, test, and commission a complex gas pressure control and metering station.	5	30	No	Waihanga	Yes	No	MITO	Replaced 19554 and 19556 and incorporates 23090. Resources not yet scheduled for completion.
					30385	Maintain, troubleshoot and rectify faults on a complex gas pressure control and metering station.	5	30	No	Waihanga	Yes	No	MITO	Replaced 195548 and 19559. Resources not yet scheduled for completion.
12	Network Leakage Response													
	Permits the holder to act as first responder to assess, contain and stabilise leakage from reticulated gas networks by making a temporary repair.	Safety Induction Safe Working Gas Foundation	Unsupervised	3 Yearly	10975	Squeeze off a polyethylene pipe in a gas network	4	6	L4	Waihanga	Yes	Yes	MITO	
					10981	Fit mechanical couplings in a gas network	3	4	L3	Waihanga	Yes	Yes	MITO	
					12503	Respond to, locate and classify gas escapes in a gas network	4	15	No	Waihanga	Yes	Yes	MITO	
					12526	Use fresh air distance breathing apparatus in a gas network	3	3	L3	Waihanga	Yes	Yes	MITO	
					19549	Repair gas escapes in a gas network	4	10	No	Waihanga	Yes	Yes	MITO	Unit updated Nov 22
					19552	Stabilise a gas emergency site and deal with a gas-filled building	4	20	No	Waihanga	Yes	Yes	MITO	Changed to Level 4
					25610	Demonstrate knowledge of polyethylene pipe, fittings and fusion jointing for a gas network	3	4	L3	Waihanga	Yes	Yes	MITO	
					30371	DKO flow stopping operations in a gas network	3	4	L3	Waihanga	Yes	Yes	MITO	Replaced 25607 and 25611
					30379	Locate pipes and cables and advise on third party works in the vicinity of a gas pipeline	4	6	L4	Waihanga	Yes	Yes	MITO	Replaced 9548, 10992 and 19551
					30383	Restore supply and recommission a low capacity installation after an interruption	4	10	L4	Waihanga	Yes	Yes	MITO	Replaced 19550 and 23089
					31448	Operate and maintain small plant for infrastructure works	3	10	L3	Waihanga	NA	Yes	Connexis	Replaced 6457, 6467, 6470
					32035	Demonstrate and apply knowledge of excavation, backfill and compaction for a gas network	3	10	L3	Waihanga	Yes	Yes	Mito	
					32334	Implement controls to work in a hazardous gas atmosphere	4	10	L4	Waihanga	Yes	Yes	MITO	New unit
13	Gas Fitter - GMS Change, Disconnect, and/or Reconnect													
	Permits the holder to change, disconnect/reconnect GMS with a capacity no greater than 25 m3/h, and includes restoring supply.	Licensed Gas Fitter	Unsupervised	3 Yearly	30370	DKO gas pipelines & network	3	6	L3	Waihanga	Yes	Yes	MITO	Replaced 12520, 12521, 19541, 19542
					30382	Install & change low capacity gas measurement systems	4	8	L4	Waihanga	Yes	Yes	MITO	Replaced 12510 and 23085
					30383	Restore supply and recommission a low capacity installation after an interruption	4	10	L4	Waihanga	Yes	Yes	MITO	Replaced 19550 and 23089
					32040	Collect and record gas metering data	3	4	L3	Waihanga	Yes	Yes	MITO	Ex 23084
					32041	Demonstrate knowledge of standard gas pressure control equipment and metering stations	3	8	L4	Waihanga	Yes	Yes	MITO	Based on 23088
					32042	Describe gas metering equipment in a gas network	3	3	L3	Waihanga	Yes	Yes	MITO	Based on 12450
14	Gas Fitter – Gas Leakage Response on GMS <25m3/hr													
	Permits the holder to provide first line emergency response for the location and repair of gas leakage on GMS equipment with a capacity no greater than 25 m3/h.	Licensed Gas Fitter	Unsupervised	3 Yearly	12507	Use hand held gas leakage detection equipment	3	5	L3	Waihanga	Yes	Yes	MITO	
					19552	Stabilise a gas emergency site and deal with a gas-filled building	4	20	No	Waihanga	Yes	Yes	MITO	
					30370	DKO gas pipelines & network	3	6	L3	Waihanga	Yes	Yes	MITO	Replaced 12520, 12521, 19541, 19542
					30382	Install & change low capacity gas measurement systems	4	8	L4	Waihanga	Yes	Yes	MITO	Replaced 12510 and 23085
					30383	Restore supply and recommission a low capacity installation after an interruption	4	10	L4	Waihanga	Yes	Yes	MITO	Replaced 19550 and 23089
					32040	Collect and record gas metering data	3	4	L3	Waihanga	Yes	Yes	MITO	Ex 23084
					32041	Demonstrate knowledge of standard gas pressure control equipment and metering stations	3	8	L4	Waihanga	Yes	Yes	MITO	Based on 23088
					32042	Describe gas metering equipment in a gas network	3	3	L3	Waihanga	Yes	Yes	MITO	Based on 12450
15	Gas Fitter – Disconnect or reconnect a GMS <12m3/hr for Commercial Reasons													
	Permits the holder to disconnect or reconnect a GMS with a capacity no greater than 12 m3/h. Includes: 1. Temporary disconnection - turn off gas inlet valve, perform let-by test, tag valve, insert rubber bung in the outlet cap or plug the inlet valve. 2. Commercial reconnection – restore supply at the inlet valve, perform let-by test and pressure drop test, purge the installation, check all appliances and relight pilot lights. No changes to the gas meter or regulator are allowed.	Licensed Gas Fitter	Unsupervised	3 Yearly	32040	Collect and record gas metering data	3	4	L3	Waihanga	Yes	Yes	MITO	Ex 23084
					32042	Describe gas metering equipment in a gas network	3	3	L3	Waihanga	Yes	Yes	MITO	Based on 12450
					32749	Isolate and disconnect a low-capacity gas measurement system (GMS) in a gas network	3	4	No	Waihanga	Yes	Yes	MITO	

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E	CoC Endorsements													
	Endorsements to certain CoC's permit the holder to carry out specified tasks													
E1	PE Pipe Jointing - Electro Fusion													
	Perform electrofusion jointing on PE pipe for a network.	PE Pipelaying or Gas Foundation	Unsupervised	3 Yearly	10980	Perform electrofusion jointing on PE pipe for a network.	4	6	L4	Waihanga	Yes	Yes	Waihanga	
E2	PE Pipe Jointing - Butt Fusion													
	Perform butt fusion jointing on PE pipe for a network	PE Pipelaying or Gas Foundation	Unsupervised	3 Yearly	10987	Perform butt fusion jointing on PE pipe for a network	4	6	L4	Waihanga	Yes	Yes	Waihanga	
E3	Hydrostatic Testing													
	Perform hydrostatic tests on gas mains and services	Construct PE Mains or Construct Steel Mains & Services	Unsupervised	3 Yearly	10972	Perform hydrostatic tests on gas mains and services	5	10	No	Waihanga	Yes	No	Waihanga	Resources not yet scheduled for completion.
E4	Hot Tap Steel Pipe													
	Hot tap, test, and drill a steel pipe in a gas network	Construct Steel Mains & Services	Unsupervised	3 Yearly	10983	Hot tap, test, and drill a steel pipe in a gas network	5	15	No	Waihanga	Yes	No	Waihanga	Resources not yet scheduled for completion.
E5	Install CP Test Points													
	Install and test CP test points in a gas network	Construct Steel Mains & Services	Unsupervised	3 Yearly	12509	Install cathodic protection in a gas network	5	10	No	Waihanga	Yes	No	Waihanga	Resources not yet scheduled for completion.
E6	Odorant Survey													
	Test for odour level and concentration in a gas network	Gas Foundation	Unsupervised	3 Yearly (Annual Panel Test)	20590	Test for odour level and concentration	4	3	L4	Waihanga	Yes	Yes	Waihanga	
E7	Cathodic Protection Survey													
	Carry out cathodic protection system monitoring.	Gas Foundation	Unsupervised	3 Yearly	32036 32037	Demonstrate knowledge of cathodic protection and carry out a reading in a gas network Carry out cathodic protection system monitoring in a gas network	3 4	5 6	L3 No	Waihanga Waihanga	Yes Yes	Yes Yes	Waihanga Waihanga	Based on 9575 Based on 9576
E8	Mark-outs & Standovers													
	Locate pipes and cables and advise on third party works in the vicinity of a gas distribution network.	Gas Foundation	Unsupervised	3 Yearly	30379	Locate pipes and cables and advise on third party works in the vicinity of a gas pipeline	4	8	L4	Waihanga	Yes	Yes	Waihanga	Replaced 9548, 10992 and 19551.
E9	Valve Maintenance													
	Check and maintain in-line valves in a gas pipeline. Excludes actuated valves and low-pressure trip mechanisms	Gas Foundation	Unsupervised	3 Yearly	12518	Check and maintain in-line valves in a gas pipeline	4	3	No	Waihanga	Yes	Yes	Waihanga	
E10	Leakage Survey (Walking)													
	Perform and record walking leakage surveys	Gas Foundation	Unsupervised	3 Yearly	32330	Perform a walking leakage survey in a gas network	4	4	No	Waihanga	Yes	Yes	Waihanga	Replaced 12504
E11	Leakage Survey (Vehicle)													
	Perform and record vehicle leakage surveys	Gas Foundation	Unsupervised	3 Yearly	32331	Perform a vehicle leakage survey in a gas network	4	4	No	Waihanga	Yes	Yes	Waihanga	Replaced 12505
E12	Issue Work Permits													
	Issue worksite specific work permits	Gas Foundation	Unsupervised	3 Yearly	17590	Issue worksite specific work permits	3	6	L4	Toitū Te Waiora	NA	Yes	PTE	
E13	GMS Leakage - Response to Gas Filled Buildings													
	Deal with gas filled buildings associated with leakage from pressure control equipment.	Standard Pressure Control	Unsupervised	3 Yearly	19552	Stabilise a gas emergency site and deal with a gas-filled building	4	20	No	Waihanga	Yes	Yes	MITO	