

GANZ Reticulated Gas - Competence Protocol GIP009 - Appendix 3		Version 2 - January 2021											
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?	Training & Assessment Resource Available?	Comments
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.							
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	Review and update of current ARA training & Assessment Material Required	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. 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.	Authorised Restricted Access	Direct	2 Yearly	497 17593 32105	DKO workplace health & safety Apply safe work practices Use PPE in a gas network	1 2 2	3 4 2	No No L3	Skills Skills MITO	NA NA Yes	External External In Progress	 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 6401 6402 18426 30265	Suppress fire with hand extinguishers Provide First Aid Provide basic life support Demonstrate knowledge of hazards associated with confined spaces Apply health and safety risk assessment to a job role	2 2 1 3 3	1 1 1 4 8	L3 No No L3 L3	Skills Skills Skills Skills Skills	NA NA NA NA NA	External External External External External	
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 11327 11328 12502 12507 17596 20877 20878 25510 30367 30370 30380 32040 32042	Draft information for as-built drawings for a gas network Respond to concerns/enquiries to industry operations Gain approvals/notifications for works Use pressure gauges and monitoring equipment Use hand held gas leakage detection equipment Demonstrate knowledge of safety observer responsibilities in the workplace DKO working safely under temp traffic management Assist with temporary traffic management Operate an atmospheric testing device to determine a suitable atmosphere exists to work safely DKO gas & risks & safety precautions for working with live gas DKO gas transmission pipelines & distribution networks Interpret & use gas terminology, signage, plans and drawings to identify assets in a gas network Collect and record gas metering data Describe gas metering equipment in a gas network	3 3 3 3 3 3 2 1 3	5 4 3 4 5 8 2 2 4	L3 L3 L3 L3 L3 L3 L3 L3 L3	MITO MITO MITO MITO MITO Skills Connexis Connexis Skills	Yes Yes Yes Yes Yes NA NA NA	Yes Yes Yes In Progress Yes External External External	 Or NZTA approved Traffic Controller Card Or NZTA approved Traffic Controller Card Replaced 12442, 12524 & 17690 Replaced 12520, 12521, 19541, 19542 Replaced 9543, 10994, 11326 Ex 23084 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 12502 12507 30367 30382 30383 32040 32041 32042	Gain approvals/notifications for works Use pressure gauges and monitoring equipment Use hand held gas leakage detection equipment DKO gas & risks and safety precautions for working with live gas Install & change low capacity gas measurement systems Restore supply and recommission a low capacity installation after an interruption. Collect and record gas metering data Demonstrate knowledge of standard gas pressure control equipment and metering stations Describe gas metering equipment in a gas network	3 3 3 3 3 4 3 3 3	3 4 5 6 8 12 4 8 3	L3 L3 L3 L3 L4 L4 L3 L4 L3	MITO MITO MITO MITO MITO MITO MITO MITO MITO	Yes Yes Yes Yes Awaiting Approval Awaiting Approval Yes Yes Yes	Yes In Progress Yes Yes No No Yes No Yes	 Replaced 12442, 12524 & 17690 Replaced 12510 and 23085 Replaced 19550 and 23089 Ex 23084 Based on 23088 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 This CoC does not permit the holder to carry out pressure testing, livening or purging of any pipes or fittings or any jointing work on to any live pipe.	Safety Induction Safe Working	Unsupervised	3 Yearly	10995 10988 11328 20869 20877 20878 23086 25610 30380 31448 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 DKO working safely under temp traffic management Assist with temporary traffic management 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 Demonstrate and apply knowledge of excavation, backfill and compaction for a gas network	3 4 3 3 2 1 3 3 3 3 3	5 6 3 3 2 2 6 6 6 10 10	L3 L4 L3 L3 L3 L3 L3 L3 L3 L3 L3	MITO MITO MITO Connexis Connexis Connexis MITO MITO Connexis MITO	Yes Awaiting Approval Yes NA NA Yes Yes Awaiting Approval NA Yes	Yes No Yes Yes External External Yes Yes In Progress Yes In Progress	Renamed Or NZTA approved Traffic Controller Card Or NZTA approved Traffic Controller Card Replaced 9543, 10994, 11326
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 GAS XX12 GAS XX14 GAS XX18	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, and purge a PE service in a gas network Disconnect and decommission a main or service in a gas network Access a gas pipe inside a casing pipe in a gas network	4 3 4 3 3 3 3 3 4 4 4	6 4 6 6 6 8 10 10 8 4 5	L4 L3 L4 L3 L3 L4 L3 L3 L4 L4 L4	MITO MITO MITO MITO MITO MITO Connexis MITO MITO MITO MITO	Awaiting Approval Yes Awaiting Approval Yes Yes Awaiting Approval NA Yes Awaiting Approval Awaiting Approval Awaiting Approval	N Yes N Yes Yes N N In Progress N N N	Renamed Renamed Replaced 12510 and 23085 New unit based on 19547 New unit New unit
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	Unsupervised	3 Yearly	30371 30374 30377 GAS XX11 GAS XX19	DKO flow stopping in a gas network Carry out a flow stopping operation using squeeze-offs Demonstrate knowledge of pigging Test, connect and purge a PE main in a gas network Internal cleaning of a gas pipe in a gas network	3 4 3 4 4	4 10 4 12 6	L3 L4 L3 L4 L4	MITO MITO MITO MITO MITO	Yes Awaiting Approval Yes Awaiting Approval Awaiting Approval	In Progress N Yes N N	Replaced 25607 and 25611 New unit 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 GAS XX13	Perform pipe coating and wrapping on a steel pipeline DKO 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 Connect, test and purge steel mains and services in a gas network	4 4 3 3 3 4	3 6 3 2 5 15	L4 L4 L3 L4 L3 L4	MITO MITO MITO MITO MITO MITO	Awaiting Approval Awaiting Approval Yes Awaiting Approval Yes Awaiting Approval	N N Yes N Yes N	Based on 9575 New unit to replace 19546 and 19547
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 10984 12456 19555 19557 19560 30382 30383 32041	DKO hazardous areas and their electrical requirements 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 3 4 4 4 4 3 4 3	3 3 5 10 10 15 8 12 8	L4 L3 L4 L4 L4 L4 L4 L4 L4	Skills MITO MITO MITO MITO MITO MITO MITO MITO MITO	NA Yes Awaiting Approval Awaiting Approval Awaiting Approval Awaiting Approval Awaiting Approval Awaiting Approval Yes	External Yes N N N N N N N	Unit is expiring - replacement required. Changed to Level 4 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	L5	MITO	Awaiting Approval	N	Replaced 19554 and 19556 and incorporates 23090
					30385	Maintain, troubleshoot and rectify faults on a complex gas pressure control and metering station.	5	30	L5	MITO	Awaiting Approval	N	Replaced 19554 and 19556
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	MITO	Awaiting Approval	N	
					10980	Perform electrofusion jointing on PE pipe for a network.	4	6	L4	MITO	Awaiting Approval	N	
					10981	Fit mechanical couplings in a gas network	3	4	L3	MITO	Awaiting Approval	N	
					12503	Respond to, locate and classify gas escapes in a gas network	4	15	L4	MITO	Awaiting Approval	N	
					12526	Use fresh air distance breathing apparatus in a gas network	3	3	L3	MITO	Yes	Yes	
					19552	Stabilise a gas emergency site and deal with a gas-filled building	4	15	L4	MITO	Awaiting Approval	N	Change to Level 4
					25610	Demonstrate knowledge of polyethylene pipe, fittings and fusion jointing for a gas network	3	4	L3	MITO	Yes	Yes	
					30371	DKO flow stopping operations in a gas network	3	4	L3	MITO	Yes	In Progress	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	MITO	Awaiting Approval	N	Replaced 9548, 10992 and 19551
					30383	Restore supply and recommission a low capacity installation after an interruption	4	12	L4	MITO	Awaiting Approval	N	Replaced 19550 and 23089
					31448	Operate and maintain small plant for infrastructure works	3	10	L3	Connexis	NA	?	
					32035	Demonstrate and apply knowledge of excavation, backfill and compaction for a gas network	3	10	L3	MITO	Yes	In Progress	
					GASXX20	Implement controls to work in a hazardous gas atmosphere	4	10	L4	MITO	Awaiting Approval	N	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	MITO	Yes	Yes	Replaced 12520, 12521, 19541, 19542
					30382	Install & change low capacity gas measurement systems	3	8	L4	MITO	Awaiting Approval	N	Replaced 12510 and 23085
					30383	Restore supply and recommission a low capacity installation after an interruption	4	12	L4	MITO	Awaiting Approval	N	Replaced 19550 and 23089
					32040	Collect and record gas metering data	3	4	L3	MITO	Yes	Yes	Ex 23084
					32041	Demonstrate knowledge of standard gas pressure control equipment and metering stations	3	8	L4	MITO	Yes	N	Based on 23088
					32042	Describe gas metering equipment in a gas network	3	3	L3	MITO	Yes	Yes	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	MITO	Yes	Yes	
					19552	Stabilise a gas emergency site and deal with a gas-filled building	4	15	L4	MITO	Awaiting Approval	N	
					30370	DKO gas pipelines & network	3	6	L3	MITO	Yes	Yes	Replaced 12520, 12521, 19541, 19542
					30382	Install & change low capacity gas measurement systems	3	8	L4	MITO	Awaiting Approval	N	Replaced 12510 and 23085
					30383	Restore supply and recommission a low capacity installation after an interruption	4	12	L4	MITO	Awaiting Approval	N	Replaced 19550 and 23089
					32040	Collect and record gas metering data	3	4	L3	MITO	Yes	Yes	Ex 23084
					32041	Demonstrate knowledge of standard gas pressure control equipment and metering stations	3	8	L4	MITO	Yes	N	Based on 23088
					32042	Describe gas metering equipment in a gas network	3	3	L3	MITO	Yes	Yes	Based on 12450

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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 Construct PE Services	Unsupervised	3 Yearly	10980	Perform electrofusion jointing on PE pipe for a network.	4	6	L4	MITO	Awaiting Approval	N	
E2	PE Pipe Jointing - Butt Fusion												
	Perform butt fusion jointing on PE pipe for a network	PE Pipelaying or Construct PE Services	Unsupervised	3 Yearly	10987	Perform butt fusion jointing on PE pipe for a network	4	6	L4	MITO	Awaiting Approval	N	
E3	Hydrostatic Testing												
	Perform hydrostatic tests on gas mains and services	Construct PE Mains or Construct Steel Mains &	Unsupervised	3 Yearly	10972	Perform hydrostatic tests on gas mains and services	5	7	L5	MITO	No	N	
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	12	L5	MITO	No	N	
E5	Install CP Test Points												
	Install and test CP test points in a gas network	Construct Steel Mains & Services	Unsupervised	3 Yearly	12509	Install and test CP test points in a gas network	5	7	L5	MITO	No	N	
E6	Odorant Survey												
	Test for odour level and concentration in a gas network	Gas Foundation	Unsupervised	3 Yearly (Annual Panel)	20590	Test for odour level and concentration	4	3	L3	MITO	Yes	Yes	
E7	Cathodic Protection Survey												
	Carry out cathodic protection system monitoring.	Gas Foundation	Unsupervised	3 Yearly	32036	Demonstrate knowledge of cathodic protection and carry out a reading in a gas network	3	5	L3	MITO	Yes	Yes	Based on 9575
					32037	Carry out cathodic protection system monitoring in a gas network	3	3	L4	MITO	Yes	N	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	6	L4	MITO	Awaiting Approval	N	
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	L4	MITO	Awaiting Approval	N	
E10	Leakage Survey (Walking)												
	Perform and record walking leakage surveys	Gas Foundation	Unsupervised	3 Yearly	GAS XX06	Perform and record walking leakage surveys	3	4	L4	MITO	Awaiting Approval	N	
E11	Leakage Survey (Vehicle)												
	Perform and record vehicle leakage surveys	Gas Foundation	Unsupervised	3 Yearly	GAS XX07	Perform and record vehicle leakage surveys	3	4	No	MITO	Awaiting Approval	N	
E12	Issue Work Permits												
	Issue worksite specific work permits	Gas Foundation	Unsupervised	3 Yearly	17590	Issue worksite specific work permits	3	6	L3	Skills	NA	External	