

**Field      Engineering and Technology, and Manufacturing**

**Review of *Gas Industry and Plastics Processing Technology* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Gas Industry	Gas Measurement	12456, 30382
	Gas Network Construction	10975, 10982, 10988, 10993, 30372-30374, 30376
	Gas Network Operations	12503, 12518, 19543, 19549, 19552, 19555, 19557, 19560, 30368, 30379, 30380, 30383-30385
	Gas Transmission Operations	9550, 25315
Plastics Processing Technology	Plastics Fabrication	10980, 10987

MITO New Zealand Incorporated (MITO) has completed the review and reclassification of the unit standards listed above.

**Date new versions published**

**May 2021**

**Planned review date**

**December 2025**

**Summary**

MITO has reviewed the unit standards above to meet the requirements of the New Zealand Certificate in Reticulated Gas Pipelines (Level 4) with strands in Metering and Pressure Control, Polyethylene Pipelines, and Steel Pipelines (with optional strand in Gas Incident Response) [Ref: 3593] and to ensure they are fit-for-purpose for the industry sectors.

MITO was supported by the Gas Industry Reference Group including subject matter experts, trainers, employers and MITO representatives to review the standards. The standards were circulated to the working group's networks, and a consultation period was held on the MITO website. Feedback received was actioned where appropriate.

**Main changes**

- Titles, purpose statements, guidance information, references, outcomes, performance criteria, and range statements were amended to ensure they are accurate and fit for purpose, reflect the standard content and to ensure clarity for users.
- The level of unit standards 12456, 19552, 30374 and 30382 was adjusted to provide a better match with the NZQF Level Descriptors.
- The credits of unit standards 10993, 12456, 19555, 30374, 30376, 30379 and 30383 were adjusted to reflect the time required for learning and assessment.
- Unit standards 30368, 30372 and 30373 were designated expiring and replaced as they were no longer meeting the needs of industry.
- 10 new standards were developed; six of these replaced the three standards that were designated expiring; four are new.
- Unit Standard 9550 from *Gas Transmission Operations* domain was reclassified to the domain *Gas Network Construction*.

**Category C unit standards will expire at the end of December 2023**

**The last date for assessment of superseded versions of Category B unit standards is December 2023**

## Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Domain	Gas Transmission Operations	4-5	Standard	9550	4

## Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

### Engineering and Technology > Gas Industry > Gas Measurement

ID	Title	Level	Credit	Review Category
12456	Install, commission, and maintain electronic gas flow correctors	5 <b>4</b>	5 <b>6</b>	B
30382	Install and change a low capacity gas measurement systems in a gas network <b>Remove and install a low capacity gas measurement system in a gas network</b>	3 <b>4</b>	8	B

### Engineering and Technology > Gas Industry > Gas Network Construction

ID	Title	Level	Credit	Review Category
10975	Squeeze off a polyethylene pipe in a gas network	4	6	B
10982	Demonstrate knowledge of steel welding in a gas network <b>Describe steel welding in a gas network</b>	4	6	B
10988	Insert a polyethylene pipe into a casing pipe in a gas network <b>Insert a polyethylene pipe for a trenchless operation in a gas network</b>	4	6	B
10993	Use a Holiday detector on a steel gas pipe <b>Use a Holiday detector on a steel gas pipeline</b>	3	2 <b>4</b>	B
30372	Decommission and disconnect mains and services in a gas network	4	15	C
<b>32332</b>	<b>Decommission and disconnect a gas main or service in a gas network</b>	<b>4</b>	<b>6</b>	
30373	Connect, test, and purge mains and services in a gas network	4	8	C
<b>32335</b>	<b>Test, connect, purge and commission a polyethylene main in a gas network</b>	<b>4</b>	<b>12</b>	
<b>32336</b>	<b>Connect, test, purge and commission a polyethylene service in a gas network</b>	<b>4</b>	<b>8</b>	
<b>32337</b>	<b>Test, connect, purge and commission steel mains or services in a gas network</b>	<b>4</b>	<b>12</b>	

ID	Title	Level	Credit	Review Category
30374	Carry out a flow stopping operation on a live gas pipeline <b>Carry out flow stopping operations using squeeze-offs on a gas pipeline</b>	5 4	20 10	B
30376	Pig a gas pipeline	4	4 6	B
32338	<b>Access a gas pipe inside a casing pipe in a gas network</b>	4	5	New
32339	<b>Internally clean a gas pipe in a gas network</b>	4	6	New

Engineering and Technology > Gas Industry > Gas Network Operations

ID	Title	Level	Credit	Review Category
12503	Respond to and locate gas escapes in a gas network <b>Respond to, locate and classify gas escapes in a gas network</b>	4	15	B
12518	Check and maintain in-line valves in a gas pipeline	4	3	B
19543	Audit worksite systems in a gas network	4	4	B
19549	Make temporary repairs of gas escapes in a gas network	4	10	B
19552	Stabilise a gas emergency site and deal with a gas-filled building	5 4	20	B
19555	Assemble, install, test, and commission a low capacity gas pressure control and metering station <b>Assemble, install, test, and commission a standard gas pressure control and metering station</b>	4	10 15	B
19557	Perform maintenance on a low capacity gas pressure control and metering station <b>Perform maintenance on a standard gas pressure control and metering station</b>	4	10	B
19560	Troubleshoot and rectify faults on a low capacity gas pressure control and metering station <b>Troubleshoot and rectify faults on a standard gas pressure control and metering station</b>	4	15	B
30368 32330 32331	Perform and record leakage surveys in a gas network <b>Perform a walking leakage survey in a gas network</b> <b>Perform a vehicle leakage survey in a gas network</b>	4 4 4	6 4 4	C
30379	Locate pipes and cables and advise on third party works in the vicinity of a gas pipeline <b>Locate pipes and cables and advise on works in the vicinity of a gas pipeline</b>	4	6 8	B
30380	Interpret and use gas terminology, signage, plans and drawings to identify assets in a gas network	3	6	B
30383	Restore supply and recommission a low capacity installation after an interruption in a gas network	4	12 10	B
30384	Assemble, install, test, and commission a high capacity gas pressure control and metering station <b>Assemble, install, test, and commission a complex gas pressure control and metering station</b>	5	30	B
30385	Maintain, troubleshoot and rectify faults on a high capacity gas pressure control and metering station <b>Maintain, troubleshoot and rectify faults on a complex gas pressure control and metering station</b>	5	30	B
32333	<b>Lead daily activities on a gas network site</b>	4	8	New

ID	Title	Level	Credit	Review Category
32334	Implement controls to work in a hazardous gas atmosphere in a gas network	4	10	New

Engineering and Technology > Gas Industry > Gas Transmission Operations

ID	Title	Level	Credit	Review Category
25315	Isolate and tag plant and equipment, and remove danger tags, in a gas network	4	3	B

Engineering and Technology > Gas Industry > Gas Transmission Operations

Engineering and Technology > Gas Industry > **Gas Network Construction**

ID	Title	Level	Credit	Review Category
9550	Perform pipe coating and wrapping on a steel pipeline	4	3	B

Manufacturing > Plastics Processing Technology > Plastics Fabrication

ID	Title	Level	Credit	Review Category
10980	Perform electrofusion jointing on polyethylene pipe for a network	4	6	B
10987	Perform butt fusion jointing on polyethylene pipe for a network	4	6	B