

<b>Title</b>	<b>Install LPG cylinder systems for gas installations in buildings</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is for people who work in the gasfitting industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– identify appropriate LPG cylinder supply systems for gas installations in buildings;</li> <li>– install LPG cylinder supply systems for gas installations in buildings; and</li> <li>– commission LPG cylinder systems for gas installations in buildings.</li> </ul>
----------------	---

<b>Classification</b>	Plumbing, Gasfitting and Drainlaying > Gasfitting
-----------------------	---

<b>Available grade</b>	Achieved
------------------------	----------

## Guidance Information

### 1 References

Gas Act 1992;

Gas (Safety and Measurement) Regulations 2010;

Hazardous Substances and New Organisms Act 1996;

Hazardous Substances (Compressed Gases) Regulations 2004;

Health and Safety at Work Act 2015;

The following standards, which are available at <http://www.standards.govt.nz>:

AS/NZS 1596:2014, *The storage and handling of LP Gas*,

AS/NZS 2430.3.1:2004, *Classification of hazardous areas – Examples of area classification – General*,

NZS 5601.1:2013 *Gas installation*;

The following clauses, and any related compliance documents, which are available at

<https://www.building.govt.nz/>:

New Zealand Building Code Clause G10 Piped Services,

New Zealand Building Code Clause G11 Gas as an Energy Source;

The following code of practice, which is available at <http://www.gasnz.org.nz/lpg-association-of-new-zealand/lpga/codes-of-practice/>:

LPG Association Code of Practice No. 2 *Installation and maintenance of twin 45kg*; and all subsequent amendments and replacements.

### 2 Range

LPG cylinder supply systems may include any combination of – single cylinder, multiple cylinder, auto-changeover regulator, automatic ordering.

### 3 Definition

*LPG cylinder systems* – cylinders and associated fittings including pigtails, regulators, manifolds, and condensate trap/drain.

---

## Outcomes and performance criteria

### Outcome 1

Identify appropriate LPG cylinder supply systems for gas installations in buildings.

#### Performance criteria

1.1 Determine the adequate LPG gas supply system to meet the requirements of the intended application.

Range considerations – vaporisation, load, availability of cylinder replenishment.

1.2 Select system components that are appropriate for the intended system.

Range may include but is not limited to – LPG cylinders, changeover regulators, excess flow valves, flexible hoses, single and two stage regulation, condensate trap, cylinder connections, relief valves, relief pipes.

### Outcome 2

Install LPG cylinder supply systems for gas installations in buildings.

#### Performance criteria

2.1 Calculate required capacities with reference to the maximum appliance load.

2.2 Establish the location of the systems in accordance with relevant standards and codes.

2.3 Determine the required physical protection of systems in accordance with relevant standards and codes.

2.4 Install systems in accordance with relevant standards and codes.

2.5 Secure and provide physical protection of installed systems in accordance with relevant standards and codes.

2.6 Perform leakage tests and purging prior to the regulator in accordance with relevant standards and codes.

### Outcome 3

Commission LPG cylinder systems for gas installations in buildings.

**Performance criteria**

- 3.1 Commission system in accordance with relevant standards and codes.
- Range includes – checking and adjusting supply regulator working pressures.
- 3.2 Complete documentation in accordance with relevant standards and codes.
- Range may include but is not limited to information required for – gas certificates, guarantees, checklists, site certification.
- 3.3 Complete the consumer instruction process to be followed on completion of installation and commissioning.

<b>Replacement information</b>	This unit standard, unit standard 30720, unit standard 30722, and unit standard 30723 replaced unit standard 21897.
--------------------------------	---

<b>Planned review date</b>	31 December 2022
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	23 November 2017	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0003
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact The Skills Organisation [reviewcomments@skills.org.nz](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.