

<b>Title</b>	<b>Install LPG cylinder systems for gas installations in mobile applications</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</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 mobile applications;</li> <li>– install LPG cylinder supply systems for gas installations in mobile applications; and</li> <li>– commission LPG cylinder systems for gas installations in mobile applications.</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 (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*,

NZS 5601.1:2013 *Gas installation*,

NZS 5601.2:2013 *Gas installations - Part 2: LP Gas installations in caravans and boats for non-propulsive purposes*;

The following codes 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 LPG cylinder systems*,

LPG Association Code of Practice No. 5 *Installation and maintenance of LPG multi-cylinder systems*;

and all subsequent amendments and replacements.

Where there is content in codes and standards that applies to both mobile and fixed LPG cylinder systems, assessment against this standard is to focus on the unique attributes of mobile installations.

- 2 Range  
LPG cylinder supply systems may include any combination of – single cylinder, multiple cylinder, auto-changeover regulator.
- 3 Definitions  
*LPG cylinder systems* – cylinders and associated fittings including pigtails, regulators, manifolds, condensate trap/drain, and where necessary system pipework.  
*Mobile applications* – installations of LPG for non propulsive purposes in boats, caravans, food trucks, floating restaurants, motorhomes, motor caravans, mobile catering facilities. Demonstration of only one is required.
- 4 Recommended skills and knowledge for the unit standard: Unit 30720, *Demonstrate knowledge of the gasfitting of LPG cylinder systems for gas installations in buildings*; and Unit 30721, *Install LPG cylinder systems for gas installations in buildings*.

---

## Outcomes and performance criteria

### Outcome 1

Identify appropriate LPG cylinder supply systems for gas installations in mobile applications.

#### Performance criteria

- 1.1 Determine the adequate LPG gas supply system to meet the requirements of the intended application.
- Range considerations – vaporisation, load.
- 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 mobile applications.

#### 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 Select appropriate materials with reference to the particular issues of a mobile application.

- 2.5 Determine the requirement for gas detection and ventilation.
- 2.6 Install systems in accordance with relevant standards and codes.
- 2.7 Secure and provide physical protection of installed systems in accordance with relevant standards and codes.
- 2.8 Perform leakage tests and purging in accordance with relevant standards and codes.
- 2.9 Ensure the watertightness of internal and external penetrations in accordance with relevant standards and codes.

### Outcome 3

Commission LPG cylinder systems for gas installations in mobile applications.

### 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 30721, and unit standard 30722 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.