

Unit of Competency CPCPGS3060

Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8 kl

Application

This unit specifies the skills and knowledge required to select, locate and install liquefied petroleum gas (LPG) storage of 500 to 8000 litres aggregate capacity.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

Prerequisite Unit

CPCPCM2043 Carry out WHS requirements

Elements and Performance Criteria

1. Plan the work.	<ul style="list-style-type: none">1.1 Access, read and determine LPG system installation requirements from relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.1.2 Identify and apply workplace policies and procedure and work health and safety (WHS) and environmental requirements.1.3 Determine gas load and design requirements.1.4 Check storage capacity for compliance with relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.1.5 Determine appropriate regulators to meet capacity and load of the system.1.6 Select the location of LPG cylinders or tank according to relevant job plans and specifications, codes, relevant Australian standards, manufacturer's specifications and jurisdictional requirements.
2. Prepare for work.	<ul style="list-style-type: none">2.1 Create a materials list and collect materials.2.2 Select appropriate tools and equipment, including personal protective equipment (PPE).2.3 Select appropriate testing equipment.2.4 Prepare work area and materials to support installation.
3. Install and test LPG storage system.	<ul style="list-style-type: none">3.1 Install LPG storage container/s, piping, fittings and components in compliance with relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.3.2 Install regulators and associated pipework, in compliance with relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.3.3 Test and purge installation.3.4 Commission installation, including checking regulator working and lockup pressure.3.5 Complete documentation according to installation requirements and/or workplace procedures.

4. Clean up.	<p>4.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.</p> <p>4.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.</p>
--------------	--

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCPGS3060A Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8 KL.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCPGS3060

Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8 kl

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- installing a liquefied petroleum gas (LPG) storage facility of capacity greater than 500 litres (but less than 8 kl) to a consumer point of connection, including:
 - a tank or a manifold installation connecting a minimum of three cylinders with a storage capacity greater than 500 litres (but less than 8 kl)
 - installation of a first and second stage regulator
 - testing first and second stage piping installation.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- LPG storage requirements
- characteristics, application and limitations of approved materials and components including:
 - vaporisation rates
 - manifold
 - tank/cylinder support(s) and bases
 - approved piping materials
 - approved fitting and fixing materials
 - gas storage containers (500 l – 8 kl)
 - gas regulators
 - non-metallic hose assemblies
- processes, procedures and techniques for:
 - installing and connecting LPG supply
 - determining and calculating material quantities
- how to access relevant information, including job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements
- tools, materials and equipment used to install LPG storage
- work health and safety requirements for installing LPG storage
- properties of gas, gas safety, combustion principles, pressure and flow rates.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>