

# Unit of Competency CPCPGS3047

## Install LPG systems in marine craft

### Application

This unit specifies the skills and knowledge required to install and commission gas detection systems and liquefied petroleum gas (LPG) systems with an operating pressure not exceeding 3.0 kPa in marine craft.

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. Identify LPG installation requirements in a marine craft.	<p>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.</p> <p>1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.</p>
2. Prepare for work.	<p>2.1 Create a materials list and collect materials.</p> <p>2.2 Select appropriate tools and equipment, including personal protective equipment (PPE).</p> <p>2.3 Calculate pipe size and ventilation requirements.</p>
3. Install LPG system, including flue and ventilation.	<p>3.1 Perform installation of cylinders, regulators, associated pipework, appliances and fixings.</p> <p>3.2 Perform installation of a gas detection system according to relevant Job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p>
4. Test and commission LPG and detection systems.	<p>4.1 Select appropriate equipment to conduct testing.</p> <p>4.2 Perform test and commissioning of system according to relevant Job plans and specifications codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p> <p>4.3 Affix compliance plates and signage according to relevant codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p> <p>4.4 Complete documentation according to regulatory requirements and/or workplace procedures.</p>
5. Clean up.	<p>5.1 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>5.2 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 CPCPGS3047A Install LPG systems in marine craft.

## Links

Companion Volume Implementation Guide:

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

# Assessment Requirements for CPCPGS3047 Install LPG systems in marine craft

## Performance Evidence

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

- installing, testing and commissioning liquefied petroleum gas (LPG) and gas-detection systems including installing pipework, connecting a type A gas appliance in a marine craft, including determining the gas load, storage capacity and ventilation requirements.

## Knowledge Evidence

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

- pipe size and ventilation requirements
- installation requirements for ventilation, appliances, LPG cylinder, regulators and piping
- how to access relevant information, including relevant Job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements
- properties of gas, gas safety, combustion principles, gas pressures and detection systems
- tools, materials and equipment used for the installation and commissioning of gas detection systems and LPG systems in marine craft
- work health and safety (WHS) requirements for the installation and commissioning of gas detection systems and LPG systems in marine craft.

## 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

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