

Unit of Competency CPCPGS3061

Install and commission Type A gas appliances

Application

This unit specifies the skills and knowledge required to install and commission certified Type A gas appliances.

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

CPCPGS3054 Calculate and install natural ventilation for Type A gas appliances.

Elements and Performance Criteria

1. Identify liquefied petroleum gas (LPG) installation requirements.	<ul style="list-style-type: none">1.1 Access, read and determine Type A gas appliance installation requirements from job specifications, relevant Australian Standards, codes, manufacturer's specifications and jurisdictional requirements.1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.
2. Prepare the 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 Identify potential hazards and determine and implement control measures.
3. Install and commission appliance.	<ul style="list-style-type: none">3.1 Determine ventilation opening and source of air supply.3.2 Set out and install test pipe system according to job specifications and complying with relevant Australian Standards, codes, manufacturer's specifications and jurisdictional requirements.3.3 Install appliance, purge piping and reconnect system to appliance and other services according to job specifications, relevant Australian Standards, codes, manufacturer's specifications and jurisdictional requirements.3.4 Test, adjust and commission appliance.3.5 Test for leakage or spillage of combustion products into circulating air system.3.6 Conduct an electrical safety check.3.7 Complete documentation according to regulatory requirements and/or workplace procedures.
4. Clean up.	<ul style="list-style-type: none">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.4.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.

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 CPCPGS3061A Install and commission Type A gas appliances.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPGS3061

Install and commission Type A gas appliances

Performance Evidence

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

- installing and commissioning three certified Type A gas appliances:
 - one must be a fan assisted flued appliance
 - one must be installed in a domestic setting
 - one must be installed in a commercial setting
- calculating natural ventilation for at least one Type A gas appliance
- conducting a carbon monoxide test.

All installations must include carrying out an electrical safety test.

Knowledge Evidence

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

- types of approved flues for Type A appliances, including:
 - balanced
 - individual appliance
 - multiple flues
 - natural draft
 - twin wall flues
- working drawings conventions, symbols and abbreviations
- results of carbon monoxide poisoning and how it can occur
- reasons for testing for carbon monoxide
- consequences of carbon monoxide poisoning:
 - ill health
 - death
- processes, procedures and techniques for:
 - installing and commissioning Type A appliances and ventilation
 - using carbon monoxide testing equipment to check appliance for spillage
- how to access relevant information, including codes and standards

- tools, materials and equipment used for the installation and commissioning of Type A gas appliances
- work health and safety (WHS) requirements for the installation and commissioning of Type A gas appliances
- 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

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