



Australian Government

Assessment Requirements for CPCPGS4011 Design and size consumer gas installations

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCPGS4011C Design and size consumer gas installation. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- designing, sizing and documenting the layout of four gas installations for:
- a caravan installation
- a marine installation, including the installation of an LPG leak detection system
- a commercial installation, including:
 - a gas hot-water plant incorporating a common flue design
 - a gas range
 - deep fryer
 - salamander grill
- a domestic installation with a minimum of two dwellings with at least three or more Type A gas appliances in each and incorporating subsidiary gas meters

Each installation must include:

- pipe sizing and pressures up to 200 kPa
- at least one natural gas installation
- at least one liquefied petroleum gas (LPG) installation
- a two-stage system
- an over-pressure protection device
- a minimum of two piping materials
- certified Type A gas appliances.

Knowledge Evidence

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

- drawing instruments and sketching techniques, including the use of conventional symbols
- use of computers for documentation
- computer-aided design (CAD) software

- impact of ventilation on design
- types, characteristics, uses and limitations of gas pipe work and consumer piping materials, including joining techniques and systems
- how to access relevant information, including codes and standards
- tools, materials and equipment used to design and size consumer gas installations
- work health and safety (WHS) requirements for designing and sizing consumer gas installations
- properties of gas, gas safety, combustion principles, pressure and megajoule 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 volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>