



Australian Government

Assessment Requirements for CPCPGS4022 Service Type A gas appliances

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 CPCPGS4022A Service Type A gas appliances. 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:

- diagnosing and rectifying faults in, and testing and recommissioning, four different faulty Type A appliances, including two electrical faults and two gas faults and with the following components:
 - burners and rail cocks
 - combination controls
 - pilots
 - thermostats and components
 - solenoid valve regulators not exceeding 50 volt (V) alternating current (AC) or 120 V direct current (DC) (ripple free)
 - solenoid valves
 - thermocouples
- conducting evaluative tests on electrical and electronic components not exceeding 50 V AC or 120 V DC (ripple free) to diagnose and remedy faults and malfunctions, including:
 - central processing units
 - printed circuit boards and associated parts
- converting a Type A gas appliance to operate on another gas type.

Knowledge Evidence

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

- basic electrical theory:
 - electrical safety checks
 - characteristics of fuses, circuit breakers, residual current devices and earthing systems
 - ignition systems
 - insulation resistance test
 - isolation procedures

- solenoids
- thermocouples
- thermopiles
- appliance operations
- burners and burner adjustment
- characteristics of conversion from one gas type to another
- ignition systems (pilot, ignition and re-ignition, flame safeguard systems, hot surface ignition)
- gas appliance regulators
- gas appliance thermostats
- gas safety:
 - combustion characteristics and effects
 - isolation procedures
 - operation of flame failure systems used in Type A gas appliances
- correct operation of the flue, including carbon monoxide testing
- how to access relevant information, including codes and standards
- tools, materials and equipment used to service Type A gas appliances
- work health and safety (WHS) requirements for servicing Type A gas appliances
- 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>