



**Australian Government**

# **CPCPGS3053A Disconnect and reconnect Type A gas appliances**

**Release 1**

# **CPCPGS3053A Disconnect and reconnect Type A gas appliances**

## **Modification History**

Prerequisite unit changed  
Minor changes throughout the unit  
Not equivalent to CPCPGS3023A

## **Unit Descriptor**

This unit of competency specifies the outcomes required to disconnect and reconnect services from Type A gas appliances operating on natural gas (NG), or liquefied petroleum gas (LPG), or tempered liquefied petroleum gas (TLPG) up to 200kPa.

The work is confined to disconnecting and reconnecting a like appliance.

## **Application of the Unit**

Site location for work application may be either domestic or commercial, and may be a new work site or an existing structure being renovated, extended, restored or maintained.

## **Licensing/Regulatory Information**

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

## **Pre-Requisites**

CPCPCM2043A      Carry out WHS requirements

## Employability Skills Information

This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

- |   |                                  |     |  |
|---|----------------------------------|-----|--|
| 1 | Prepare for work.                | 1.1 | Appliance and equipment specifications and appropriate manufacturer manuals are obtained.  |
|   |                                  | 1.2 | <b><i>Work health and safety (WHS) and environmental requirements</i></b> associated with disconnecting and reconnecting <b><i>Type A gas appliances</i></b> are adhered to throughout the work. |
|   |                                  | 1.3 | <b><i>Quality assurance requirements</i></b> for company operations are identified and adhered to.   |
|   |                                  | 1.4 | <b><i>Tools, equipment and materials</i></b> are selected consistent with disconnecting and reconnecting services, are checked for serviceability, and faults are reported.                      |
|   |                                  | 1.5 | Appropriate test equipment is selected for the job.  |
|   |                                  | 1.6 | Tasks are planned in conjunction with others involved in or affected by the work.  |
| 2 | Identify appliance requirements. | 2.1 | Appropriate appliance for gas supply type is selected according to job specification.  |
|   |                                  | 2.2 | Appliance installation is checked to ensure its compliance with relevant Australian standards.   |
|   |                                  | 2.3 | Appliance is checked for safe operation and its performance is checked against specification.  |

- 2.4 ***Sustainability principles and concepts*** are observed when preparing for and undertaking work process.
- 3 Disconnect and reconnect equipment.
- 3.1 Electrical safety check is carried out according to state or territory authorities' procedures and ***statutory and regulatory authorities'*** requirements.
- 3.2 Safety-check data is recorded in format required by job specification.
- 3.3 Appliance is isolated from gas service according to statutory and regulatory requirements.
- 3.4 Work is carried out according to job instruction without damage to surrounding equipment or structures.
- 4 Test operation of equipment.
- 4.1 Mechanical services, gas, water and other service connections are checked for leaks.
- 4.2 Appliance is operated to ensure it conforms to appliance specification.
- 4.3 Mechanical services equipment is adjusted according to specification.
- 5 Clean up.
- 5.1 Work area is cleared and materials disposed of, reused or recycled according to legislation, regulations, codes of practice and job specification.
- 5.2 Tools and equipment are cleaned, checked, maintained and stored according to manufacturer recommendations and workplace procedures.
- 5.3 ***Information*** is accessed and documentation completed according to workplace requirements.

## Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

### Required skills

- communication skills to:
  - access information
  - determine requirements
  - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
  - follow instructions
  - inform relevant authorities and supervisors of completion of job
  - use language and concepts appropriate to cultural differences
  - use and interpret non-verbal communication, such as hand signals
- initiative and enterprise skills to identify and report to appropriate personnel any faults in tools, equipment or materials
- literacy skills to:
  - complete workplace documentation
  - read and interpret:
    - documentation from a variety of sources
    - plans and specifications
  - record data in writing
- numeracy skills to apply measurements and calculations
- planning and organising skills to:
  - plan and set out work
  - plan work with others
- teamwork skills to work with others to action tasks and relate to people from a range of cultural and ethnic backgrounds and with varying physical and mental abilities
- technical skills to disconnect and reconnect Type A gas appliances from mechanical services, gas, water, air and other services to allow replacement, repair or maintenance
- technology skills to:
  - access and understand site-specific instructions in a variety of media
  - use mobile communication technology

### Required knowledge

- electrical safety and requisite precautions
- how to access relevant information, including codes and technical standards
- ignition and combustion principles relating to conveyed materials or materials used in

confined work spaces

- job safety analysis (JSA) and safe work method statements(SWMS)
- procedures for disconnecting and reconnecting Type A gas appliances
- properties of gas, gas safety, combustion principles, pressure and flow rates
- relevant statutory requirements related to disconnecting and reconnecting Type A gas appliances
- SI system of measurements
- workplace and equipment safety requirements

## Evidence Guide

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The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

### Overview of assessment

This unit of competency could be assessed in the workplace or a close simulation of the workplace environment providing that simulated or project-based assessment techniques fully replicate plumbing and services workplace conditions, materials, activities, responsibilities and procedures.

### Critical aspects for assessment and evidence required to demonstrate competency in this unit

A person who demonstrates competency in this unit must be able to provide evidence of:

- locating, interpreting and applying relevant information, Australian standards and specifications for disconnecting and reconnecting Type A gas appliances
- applying safety requirements throughout the work sequence, including electrical safety requirements and the use of personal protective clothing and equipment
- given the plans and specifications, effectively isolating, disconnecting and reconnecting at least two Type A gas appliances, involving at least two gas types, ensuring:
  - application of sustainability principles and concepts
  - correct identification of procedure and sequence of work
  - correct selection and use of appropriate processes, tools and equipment
  - completing all work to specification
  - compliance with regulations, relevant Australian standards and organisational quality procedures and processes
  - communicating and working effectively and safely with others.

### Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the minimum task requirements
- relevant specifications and work instructions
- tools and equipment appropriate to applying safe work practices
- support materials appropriate to activity
- workplace instructions relating to safe work practices and addressing hazards and emergencies
- material safety data sheets
- research resources, including industry-related systems information.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

## Method of assessment

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm that competency is verified and able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace
- where the assessment is part of a structured learning



experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice, with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge

- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

Assessment processes and techniques should as far as is practical take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

## Range Statement

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The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

***Work health and safety*** is to be according to commonwealth, state and territory legislation and regulations and may include:

- handling of materials
- hazard control
- personal protective clothing and equipment prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including recognising and preventing hazards associated with:
  - electricity
  - hazardous materials and substances
  - identifying and testing for electrical hazards
  - service lines
  - surrounding structures and facilities
  - trip hazards

- use of tools and equipment
- work site visitors and the public
- working at heights
- working in proximity to others
- use of firefighting equipment
- use of first aid equipment
- workplace environment and safety.

***Environmental requirements*** may include:

- clean-up protection
- waste management.

***Type A gas appliances:***

- are badged appliances of less than 500 megajoules (MJ) for which an approval scheme exists.

***Quality assurance requirements*** may include:

- Australian standards
- environment policy
- Environment Protection Authority (EPA)
- internal company quality assurance policy and risk management strategy
- International Standards Organisation
- site safety plan
- workplace operations and procedures.

***Tools and equipment*** may include:

- ladders
- lifting and load shifting equipment, which may also include:
  - chain blocks
  - forklifts
  - hand trolleys
  - hoists and jacks
  - rollers
- measuring equipment
- spanners
- test equipment and instruments
- wrenches.

***Materials*** may include:

- piping materials
- Type A gas appliances.

***Sustainability principles and concepts:***

- cover the current and future social, economic and environmental use of resources
- may include:
  - efficient energy and water use
  - efficient use and recycling of material
  - correct handling of hazardous materials
  - disposing of waste material to ensure minimal environmental impact
  - selecting appropriate components to ensure minimal environmental impact.

***Statutory and regulatory authorities include:***

- commonwealth, state or territory, and local authorities administering applicable Acts, regulations and codes of practice.

***Information may include:***

- charts and hand drawings
- instructions issued by authorised organisational or external personnel
- job drawings
- manufacturer specifications and instructions
- material safety data sheets (MSDS)
- memos
- organisation work specifications and requirements
- plans and sketches
- regulatory and legislative requirements, particularly those pertaining to:
  - building codes
  - WHS and environmental requirements
  - plumbing and gasfitting authority regulations
- relevant Australian standards
- safe work procedures relating to disconnecting and reconnecting Type A gas appliances
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.

## **Unit Sector(s)**

### **Functional area**

**Unit sector**            Plumbing and services

## **Custom Content Section**

Not applicable.