



Australian Government

Department of Education, Employment and Workplace Relations

CPCPGS3023A Disconnect and reconnect Type A gas appliances

Release: 1

CPCPGS3023A Disconnect and reconnect Type A gas appliances

Modification History

Not Applicable

Unit Descriptor

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 (LGP), or tempered liquefied petroleum gas (TLPG) up to 200kPa.

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

Application of the Unit

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

Not Applicable

Pre-Requisites

Prerequisite units

CPCPCM2023A

Carry out OHS requirements

Employability Skills Information

Employability skills 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

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work.	<p>1.1. Appliance and equipment specifications and appropriate manufacturer manuals are obtained.</p> <p>1.2. Safety (OHS) requirements associated with disconnecting and reconnecting Type A gas appliances, and workplace environmental requirements, are adhered to throughout the work.</p> <p>1.3. Quality assurance requirements for company operations are identified and adhered to.</p> <p>1.4. Tools, equipment and materials are selected consistent with disconnecting and reconnecting services, are checked for serviceability, and any faults are reported.</p> <p>1.5. Appropriate test equipment is selected for the job.</p> <p>1.6. Tasks are planned in conjunction with others involved in or affected by the work.</p>
2. Identify appliance requirements.	<p>2.1. Appropriate appliance for gas supply type is selected in accordance with job specification.</p> <p>2.2. Appliance installation is checked to ensure its compliance with relevant Australian standards.</p> <p>2.3. Appliance is checked for safe operation and its performance is checked against specification.</p> <p>2.4. Sustainability principles and concepts are applied to work preparation and application.</p>
3. Disconnect and reconnect equipment.	<p>3.1. Electrical safety check is carried out in accordance with state or territory authorities' procedures and statutory and regulatory authority requirements.</p> <p>3.2. Safety-check data is recorded in format required by job specification.</p> <p>3.3. Appliance is isolated from gas service in accordance with statutory and regulatory requirements.</p> <p>3.4. Work is carried out in accordance with job instruction without damage to surrounding equipment or structures.</p>
4. Test operation of equipment.	<p>4.1. Mechanical services, gas, water and other service connections are checked for leaks.</p> <p>4.2. Appliance is operated to ensure it conforms to appliance specification.</p> <p>4.3. Mechanical services equipment is adjusted in accordance with specification.</p>
5. Clean up.	<p>5.1. Work area is cleared and materials disposed of,</p>

ELEMENT**PERFORMANCE CRITERIA**

reused or recycled according to legislation, regulations, codes of practice and job specification.

5.2. Tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and workplace procedures.

5.3. **Information** is accessed and documentation completed in accordance with workplace requirements.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills for this unit are:

- communication skills to:
 - access information
 - complete workplace documentation
 - 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
 - plan work with others
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - record data in writing
 - use language and concepts appropriate to cultural differences
 - use and interpret non-verbal communication, such as hand signals
- disconnecting and reconnecting Type A gas appliances from mechanical services, gas, water, air and other services to allow replacement, repair or maintenance
- identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials
- numeracy skills to apply measurements and calculations

REQUIRED SKILLS AND KNOWLEDGE

- organisational skills, including the ability to plan and set out work
- 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
- technological skills to:
 - access and understand site-specific instructions in a variety of media
 - use mobile communication technology.

Required knowledge

Required knowledge for this unit is:

- application of ignition and combustion principles relating to conveyed materials or materials used in confined work spaces
- electrical safety and requisite precautions
- how to access relevant information, including codes and technical standards
- 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 and authority requirements related to disconnecting and reconnecting Type A gas appliances
- SI system of measurements
- workplace and equipment safety requirements.

Evidence Guide

EVIDENCE GUIDE

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 requirements and the use of personal protective clothing and equipment
- as a minimum the ability to, given the plans and specifications, effectively isolate, disconnect and reconnect 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

EVIDENCE GUIDE

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 working 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:

EVIDENCE GUIDE

- 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

RANGE STATEMENT

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.

Safety (OHS) is to be in accordance with commonwealth, state and territory legislation and regulations and may include:

- handling of materials
- hazard control
- identification and testing for electrical hazards
- personal protective clothing and equipment prescribed under legislation, regulations and

RANGE STATEMENT

- workplace policies and practices
 - safe operating procedures, including recognising and preventing hazards associated with:
 - electricity
 - hazardous materials and substances
 - 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.
- Type A gas appliances:***
- are badged appliances of less than 500 megajoules (MJ) for which an approval scheme exists.
- Environmental requirements*** may include:
- clean-up protection
 - waste management.
- Quality assurance*** requirements may include:
- Australian standards
 - Environment Protection Authority (EPA)
 - environment policy
 - 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

RANGE STATEMENT

- Materials** may include:
- wrenches.
 - piping materials
 - Type A gas appliances.
- Sustainability principles and concepts:**
- cover the current and future social, economic and environmental use of resources
 - may include:
 - appropriate component selection that has minimal environmental impact
 - efficient energy and water use
 - efficient use and recycling of material
 - correct handling of hazardous materials
 - disposal of waste material to ensure minimal environmental impact.
- Statutory and regulatory authorities** include:
- commonwealth, state and local authorities administering applicable Acts, regulations and codes of practice.
- Information** may include:
- charts and hand drawings
 - diagrams or sketches
 - 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
 - regulatory and legislative requirements, particularly those pertaining to:
 - building codes
 - OHS 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)

Unit sector Plumbing and services

Co-requisite units

Co-requisite units Nil

Functional area

Functional area