



**Australian Government**

# **CPC32712 Certificate III in Gas Fitting**

**Release 1**

## CPC32712 Certificate III in Gas Fitting

### Modification History

Revised qualification deemed not equivalent to CPC32711

Change to core units:

- a number of units replaced with updated versions
- CPCPCM2011A replaced with imported unit HLTFA211A
- new unit CPCPGS3047A added
- CPCPGS3017A deleted
- Change to elective units:
- a number of units replaced with updated versions
- several units revised resulting in unit identifier changes

### Description

This qualification provides a trade outcome in gas fitting.

Occupational titles may include:

- Gas fitter.

The qualification has core and elective unit of competency requirements that cover some common skills for the plumbing industry, as well as gas fitting specialist units of competency.

The plumbing industry strongly affirms that training and assessment leading to recognition of skills must be undertaken in a real or very closely simulated workplace environment and this qualification requires all units of competency to be delivered in this context.

Completion of the general induction training program specified by the National Code of Practice for Induction Training for Construction Work (ASCC 2007) is required before entering a construction work site. Achievement of unit CPCCOHS1001A covers this requirement.

### Pathways Information

Not applicable.

### Licensing/Regulatory Information

### Entry Requirements

Not applicable.

## Employability Skills Summary

Employability skill	Industry/enterprise requirements for this qualification include:
<b>Communication</b>	<ul style="list-style-type: none"> <li>• Communicates with clients, colleagues and others using effective and appropriate communication techniques, including:               <ul style="list-style-type: none"> <li>• Clear and direct communication</li> <li>• Active listening</li> <li>• Verbal and non-verbal language</li> <li>• Questioning to identify and confirm requirements</li> <li>• Language and concepts appropriate to cultural differences</li> </ul> </li> <li>• Follows instructions from supervisor and other relevant persons</li> <li>• Understands, interprets and applies information as required from:               <ul style="list-style-type: none"> <li>• Regulatory, legislative, licensing and organisational requirements</li> <li>• Environmental and OHS requirements, including material safety data sheets (MSDS)</li> <li>• Codes and standards</li> <li>• Plans, drawings and specifications</li> <li>• Schedules</li> <li>• Load tables</li> <li>• Designs</li> <li>• Safety signs and symbols</li> <li>• Organisational policies and procedures</li> </ul> </li> <li>• Understands relevant definitions, terminology, symbols, abbreviations and language</li> <li>• Uses industry-accepted visual communications, including hand signals</li> <li>• Reports and records routine workplace and regulatory information including test data</li> <li>• Applies measurements and calculations using appropriate equipment, formulas and records as required</li> <li>• Reports and records hazards and risks</li> <li>• Produces drawings and sketches</li> </ul>
<b>Teamwork</b>	<ul style="list-style-type: none"> <li>• Works as part of a team</li> <li>• Provides assistance and encouragement to other team members</li> <li>• Initiates and encourages improvements in team performance</li> <li>• Works with others to plan and sequence tasks</li> <li>• Identifies and utilises the strengths of other team members</li> <li>• Relates to people from diverse social, cultural and ethnic backgrounds and with varying physical and mental abilities</li> </ul>

<b>Employability skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
	<ul style="list-style-type: none"> <li>• Participates in workplace meetings</li> </ul>
<b>Problem solving</b>	<ul style="list-style-type: none"> <li>• Responds effectively to hazards, risks, emergencies and first aid situations</li> <li>• Examines tools and equipment prior to use for damage, missing components or other defects</li> <li>• Identifies typical faults and problems and takes remedial actions and/or reports to supervisor</li> <li>• Rectifies simple faults with tools and equipment</li> <li>• Test systems and components</li> <li>• Calculates ventilation requirements and gas storage capacity</li> <li>• Locates and repairs gas leaks</li> <li>• Assesses roof work site safety</li> </ul>
<b>Initiative and enterprise</b>	<ul style="list-style-type: none"> <li>• Maximises use of resources by recycling, re-using or using appropriate disposal methods</li> <li>• Responds to change and workplace challenges</li> <li>• Determines requirements for heating system installations, appliance installations, flue installations and gas piping system purging</li> </ul>
<b>Planning and organising</b>	<ul style="list-style-type: none"> <li>• Prepares work area</li> <li>• Identifies and obtains necessary documentation</li> <li>• Collects, analyses and organises workplace information</li> <li>• Selects and uses appropriate materials, tools and equipment</li> <li>• Carries out site inspections</li> <li>• Determines material quantity requirements and conformity to requirements</li> <li>• Coordinates delivery of materials</li> <li>• Determines installation requirements</li> <li>• Fabricates, sets out, installs and commissions components, equipment and systems</li> <li>• Prioritises and sequences tasks</li> <li>• Applies time management skills to ensure work is completed to time requirements</li> </ul>
<b>Self management</b>	<ul style="list-style-type: none"> <li>• Recognises obligations and accepts responsibility for own work and safety</li> <li>• Recognises quality requirements and completes work to expected</li> </ul>

Employability skill	Industry/enterprise requirements for this qualification include:
	standard <ul style="list-style-type: none"> <li>• Identifies personal career development needs and sets own and team work goals</li> <li>• Participates in workplace induction</li> <li>• Cleans up work area, including tools and equipment</li> <li>• Seeks support to improve work performance</li> </ul>
<b>Learning</b>	<ul style="list-style-type: none"> <li>• Identifies own learning needs and seeks skill development as required</li> <li>• Is open to learning new ideas and techniques</li> <li>• Participates in workplace induction</li> </ul>
<b>Technology</b>	<ul style="list-style-type: none"> <li>• Uses electricity and electrical equipment safely</li> <li>• Uses and operates a range of tools and equipment correctly and safely</li> <li>• Properly starts up, operates and shuts down equipment</li> <li>• Identifies technological trends that may affect the plumbing and services sector</li> <li>• Carries out pre- and post-operational checks on tools and equipment</li> <li>• Performs tool and equipment maintenance as required</li> </ul>

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## Packaging Rules

To achieve this qualification, the candidate must demonstrate competency in:

- 32 units of competency:
  - 26 core units
  - 6 elective units.

Some units in this qualification may have prerequisite requirements, which must be met when packaging the qualification. Users are referred to the list of CPC08 units with prerequisite unit requirements available in this Training Package for this purpose.

## Core units

CPCPCM2039A	Carry out interactive workplace communication
CPCPCM2040A	Read plans and calculate plumbing quantities
CPCPCM2041A	Work effectively in the plumbing and services sector
CPCPCM2043A	Carry out WHS requirements
CPCPCM2045A	Handle and store plumbing materials
CPCPCM2046A	Use plumbing hand and power tools
CPCPCM2047A	Carry out levelling
CPCPCM2048A	Cut and join sheet metal
CPCPCM2050A	Mark out materials
CPCPCM2052A	Weld using oxy-acetylene equipment
CPCPCM2053A	Weld using manual metal arc welding equipment
CPCPCM2055A	Work safely on roofs
CPCPCM3021A	Flash penetrations through roofs and walls
CPCPGS3046A	Install LPG systems in caravans, mobile homes and mobile workplaces
CPCPGS3047A	Install LPG systems in marine craft
CPCPGS3048A	Install gas pressure control equipment
CPCPGS3049A	Install Type A gas appliance flues
CPCPGS3051A	Purge consumer piping
CPCPGS3052A	Maintain Type A gas appliances
CPCPGS3053A	Disconnect and reconnect Type A gas appliances
CPCPGS3054A	Calculate and install natural ventilation for Type A gas appliances
CPCPGS3056A	Install gas piping systems
CPCPGS3057A	Size consumer gas piping systems
CPCPGS3058A	Install and commission Type A gas appliances

CPCPGS3059A	Install LPG storage of aggregate storage capacity up to 500 litres
HLTFA211A	Provide basic emergency life support

### Elective units

CPCCCM2008B	Erect and dismantle restricted height scaffolding
CPCCCM2010B	Work safely at heights
CPCCCM3001C	Operate elevated work platforms
CPCCRI3001A	Operate personnel and materials hoists
CPC CST2005A	Carry out load slinging of off-site materials
CPCPCM2049A	Cut using oxy-LPG-acetylene equipment
CPCPCM2054A	Carry out simple concreting and rendering
CPCPCM3022A	Weld polyethylene and polypropylene pipes using fusion method
CPCPCM3023A	Fabricate and install non-ferrous pressure piping
CPCPGS3050A	Install Type B gas appliance flues
CPCPGS3055A	Install gas sub-meters
CPCPGS3060A	Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8KL
CPCPMS2021A	Assemble mechanical services components
CPCPMS3031A	Fabricate and install steel pressure piping
CPCPMS3033A	Install small bore heating systems
CPCPMS3035A	Install and test ducting systems
MEM05049B	Perform routine gas tungsten arc welding
MEM05050B	Perform routine gas metal arc welding

RIICCM210A	Install trench support
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## Custom Content Section

Not applicable.