



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **CPC32711 Certificate III in Gas Fitting**

**Release: 2**

## CPC32711 Certificate III in Gas Fitting

### Modification History

Release 2 related to V6.1 changes - Removal of erroneous listing in the elective pool of CPC32711 Cert III in Gas Fitting of unit CPCPCM2032A - relocating to its originally intended core pool location in that Qualification.

Unit code update:

CPCPGS3011A change to CPCPGS3031A Install gas piping systems.

CPCPGS3012A change to CPCPGS3032A Size consumer gas piping systems

CPCPGS3013A changed to CPCPGS3033A Install and commission Type A gas appliances

CPCPGS3014A changed to CPCPGS3034A Install LPG storage of aggregate storage capacity up to 500 litres

CPCPGS3015A changed to CPCPGS3035A Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8KL

### 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

Not Applicable

### Entry Requirements

Not Applicable

## Employability Skills Summary

### EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

<b>Employability skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
Communication	<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></ul></li><li>• Questioning to identify and confirm requirements</li><li>• Language and concepts appropriate to cultural differences</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><li>•</li></ul>
Teamwork	<ul style="list-style-type: none"><li>• Works as part of a team</li><li>• Provides assistance and encouragement to other</li></ul>

## EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

- team members
- Initiates and encourages improvements in team performance
- Works with others to plan and sequence tasks
- Identifies and utilises the strengths of other team members
- Relates to people from diverse social, cultural and ethnic backgrounds and with varying physical and mental abilities
- Participates in workplace meetings
- Problem solving
  - Responds effectively to hazards, risks, emergencies and first aid situations
  - Examines tools and equipment prior to use for damage, missing components or other defects
  - Identifies typical faults and problems and takes remedial actions and/or reports to supervisor
  - Rectifies simple faults with tools and equipment
  - Test systems and components
  - Calculates ventilation requirements and gas storage capacity
  - Locates and repairs gas leaks
  - Assesses roof work site safety
- Initiative and enterprise
  - Maximises use of resources by recycling, re-using or using appropriate disposal methods
  - Responds to change and workplace challenges
  - Determines requirements for heating system installations, appliance installations, flue installations and gas piping system purging
- Planning and organising
  - Prepares work area
  - Identifies and obtains necessary documentation
  - Collects, analyses and organises workplace information
  - Selects and uses appropriate materials, tools and equipment
  - Carries out site inspections
  - Determines material quantity requirements and conformity to requirements
  - Coordinates delivery of materials
  - Determines installation requirements
  - Fabricates, sets out, installs and commissions components, equipment and systems
  - Prioritises and sequences tasks

## EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Self management	<ul style="list-style-type: none"> <li>• Applies time management skills to ensure work is completed to time requirements</li> <li>• Recognises obligations and accepts responsibility for own work and safety</li> <li>• Recognises quality requirements and completes work to expected standard</li> <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>
Learning	<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>
Technology	<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>

## Packaging Rules

### Packaging rules

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

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

### Core units

CPCPCM2002A	Carry out interactive workplace communication
CPCPCM2004A	Read plans and calculate plumbing quantities
CPCPCM2011A	Apply first aid in the workplace

CPCPCM2021A	Work effectively in the plumbing and services sector
CPCPCM2023A	Carry out OHS requirements
CPCPCM2025A	Handle and store plumbing materials
CPCPCM2026A	Use plumbing hand and power tools
CPCPCM2027A	Carry out levelling
CPCPCM2028A	Cut and join sheet metal
CPCPCM2030A	Mark out materials
CPCPCM2032A	Weld using oxy-acetylene equipment
CPCPCM2033A	Weld using arc welding equipment
CPCPCM2035A	Work safely on roofs
CPCPCM3011A	Flash penetrations through roofs and walls
CPCPGS3016A	Install LPG systems in caravans, mobile homes, water craft and mobile workplaces
CPCPGS3017A	Install gas detection devices
CPCPGS3018A	Install gas pressure control equipment
CPCPGS3019A	Install Type A gas appliance flues
CPCPGS3021A	Purge consumer piping
CPCPGS3022A	Maintain Type A gas appliances
CPCPGS3023A	Disconnect and reconnect Type A gas appliances
CPCPGS3024A	Calculate and install natural ventilation for Type A gas appliances
CPCPGS3031A	Install gas piping systems
CPCPGS3032A	Size consumer gas piping systems
CPCPGS3033A	Install and commission Type A gas appliances
CPCPGS3034A	Install LPG storage of aggregate storage capacity up to 500 litres

**Elective units**

CPCCCM2008A	Erect and dismantle restricted height scaffolding
CPCCCM2010A	Work safely at heights
CPCCCM3001B	Operate elevated work platforms
CPCCRI3001A	Operate personnel and materials hoists
CPC CST2005A	Carry out load slinging of off-site materials
CPCPCM2029A	Cut using oxy-LPG-acetylene equipment
CPCPCM2034A	Carry out simple concreting and rendering
CPCPCM3012A	Weld plastic pipe using fusion method
CPCPCM3013A	Fabricate and install non-ferrous pressure piping
CPCPGS3020A	Install Type B gas appliance flues
CPCPGS3025A	Install subsidiary gas meters
CPCPGS3035A	Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8KL
CPCPMS2011A	Assemble mechanical services components
CPCPMS3011A	Fabricate and install steel pressure piping
CPCPMS3013A	Install small bore heating systems
CPCPMS3015A	Install and test ducting systems
MEM05049B	Perform routine gas tungsten arc welding
MEM05050B	Perform routine gas metal arc welding
RIICCM210A	Install trench support