

# Qualification Template

<b>QUALIFICATION CODE</b>	CPC32419
<b>QUALIFICATION TITLE</b>	Certificate III in Plumbing

## QUALIFICATION DESCRIPTION

This is a trade qualification for plumbers in residential, industrial and commercial workplaces assembling, installing and repairing water, drainage, gas, sewerage, ventilation and heating systems in both existing and new constructions.

Occupational titles could include:

- Plumber
- Plumber and drainer
- Plumber and gasfitter
- Gasfitter
- Roof plumber
- Mechanical services plumber

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

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required before entering a construction work site. Achievement of unit CPCCWHS1001 Prepare to work safely in the construction industry meets this requirement.

This is a licenced occupation. State and territory jurisdictions may have different licensing, legislative, regulatory or certification requirements. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

This qualification is suitable for an Australian Apprenticeship pathway.

## ENTRY REQUIREMENTS

There are no entry requirements for this qualification.

## PACKAGING RULES

To achieve this qualification one of the specialisations listed below must be undertaken.

### General Plumber

To achieve the specialisation of a General Plumber, competency must be demonstrated in:

- 59 units of competency:
  - 42 core units
  - 17 elective units

Elective are to be chosen as followed:

- 4 units must be chosen from Group A
- 3 units must be chosen from Group B
- 10 units must be chosen from Group G

### **General Plumber – Roofing**

To achieve the specialisation of a General Plumber - Roofing, competency must be demonstrated in:

- 69 units of competency:
  - 42 core units
  - 27 elective units

Elective are to be chosen as followed:

- 4 units must be chosen from Group A
- 3 units must be chosen from Group B
- 10 units must be chosen from Group G
- 8 units must be chosen from Group C
- 2 units must be chosen from Group D

### **General Plumber - Mechanical**

To achieve the specialisation of a General Plumber – Mechanical, competency must be demonstrated in:

- 74 units of competency:
  - 42 core units
  - 32 electives

Elective are to be chosen as followed:

- 4 units must be chosen from Group A
- 3 units must be chosen from Group B
- 10 units must be chosen from Group G
- 7 units must be chosen from Group E
- 8 units must be chosen from Group F

### **General Plumber - Roofing and Mechanical**

To achieve the specialisation of a General Plumber – Roofing and Mechanical, competency must be demonstrated in:

- 84 units of competency:
  - 42 core units
  - 42 electives

Elective are to be chosen as followed:

- 4 units must be chosen from Group A
- 3 units must be chosen from Group B
- 10 units must be chosen from Group G
- 8 units must be chosen Group C
- 2 units must be chosen from Group D
- 7 units must be chosen from Group E
- 8 units must be chosen from Group F

If this last option is chosen, certification will specify 'Certificate 32419 III in Plumbing (Roofing and Mechanical Services)'.

An asterisk (\*) against a unit code below indicates that there is a prerequisite requirement that must be met. Prerequisite unit(s) must be assessed before assessment of any unit of competency with an asterisk. Check the unit of competency for information on specific prerequisite requirements. All prerequisite requirements are packaged in the qualification.

### Core units

CPCPCM2012*	Work safely at heights
CPCPCM2039	Carry out interactive workplace communication
CPCPCM2040*	Read plans, and calculate quantities and mark out materials
CPCPCM2041	Work effectively in the plumbing services sector
CPCPCM2043	Carry out WHS requirements
CPCPCM2045	Handle and store plumbing materials
CPCPCM2046*	Use plumbing hand and power tools
CPCPCM2047*	Carry out levelling
CPCPCM2048*	Cut and join sheet metal
CPCPCM2052*	Weld mild steel using oxy-acetylene equipment
CPCPCM2054*	Carry out simple concreting and rendering
CPCPCM2055*	Work safely on roofs
CPCPCM3021*	Flash penetrations through roofs and walls
CPCPCM3022*	Weld polyethylene and polypropylene pipes using fusion method
CPCPCM3023*	Fabricate and install non-ferrous pressure piping
CPCPCM3099	Prepare simple drawings
CPCPDR2021*	Locate and clear blockages
CPCPDR2025*	Install stormwater and sub-soil drainage systems and drain work site
CPCPDR2026*	Install prefabricated inspection openings and inspection chambers
CPCPDR3021*	Plan layout and install below ground sanitary drainage systems
CPCPDR3023*	Install on-site domestic waste water treatment plants and disposal systems
CPCPFS3031*	Fabricate and install fire hydrant and hose reel systems
CPCPGS3047*	Install LPG systems in marine craft
CPCPGS3048*	Install gas pressure control equipment
CPCPGS3049*	Install gas appliance flues
CPCPGS3051*	Purge consumer piping

CPCPGS3053*	Disconnect and reconnect Type A gas appliances
CPCPGS3054*	Calculate and install natural ventilation for Type A gas appliances
CPCPGS3056*	Size and install consumer gas piping systems
CPCPGS3059*	Install LPG storage of aggregate storage capacity up to 500 litres
CPCPGS3061*	Install and commission Type A gas appliances
CPCPSN3011*	Plan the layout of a residential sanitary plumbing system
CPCPSN3022*	Install discharge pipes
CPCPSN3023*	Fabricate and install sanitary stacks
CPCPWT3020*	Connect and install storage tanks to a domestic water supply
CPCPWT3021*	Set out and install water services
CPCPWT3022*	Install and commission water heating systems and adjust controls and devices
CPCPWT3025*	Install water pumpsets
CPCPWT3026*	Install and fit off sanitary fixtures, water services and adjust water service controls
CPCPWT3027*	Connect non-drinking water services from drinking water service
HLTAID003	Provide first aid
RIICCM210D	Install trench support

## **Electives units**

### **Group A Gas Electives**

CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPCM2053*	Weld using manual metal arc welding equipment
CPCPGS3046*	Install LPG systems in caravans, mobile homes and mobile workplaces
CPCPGS3052*	Maintain Type A gas appliances
CPCPGS3055*	Install gas sub-meters
CPCPGS3060*	Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8KL

### **Group B Drainage Electives**

CPCPDR3025*	Plan layout and install vacuum drainage systems
CPCPSN3025 *	Install pre-treatment facilities
CPCPSN3026 *	Install sewerage pumpsets
RIICTT306D	Install cure in-place linings for existing pipeline systems
RIIMPO320F	Conduct civil construction excavator operations
RIIWS202D	Enter and work in confined spaces

### **Group C Roofing**

CPCPRF2022*	Select and install roof sheeting and wall cladding
CPCPRF2023*	Collect and store roof water
CPCPRF2024*	Fabricate roof covering to curved roof structures
CPCPRF3022*	Fabricate and install roof drainage systems
CPCPRF3023*	Fabricate and install external flashings

- CPCPRF3024\* Install roof components
- CPCPRF3026\* Install roof sheets, wall cladding and complex flashings

#### **Group D Roofing Electives**

- CPCCCM2008\* Erect and dismantle restricted height scaffolding
- CPCCCM3001 Operate elevated work platforms up to 11 metres
- CPCPRF2024\* Fabricate roof covering to curved roof structures
- CPCPRF3025\* Install roof coverings to curved roof structures
- CPCPRF3027\* Select and install a heritage roof system

#### **Group E Mechanical**

- CPCPMS2021\* Assemble mechanical services components
- CPCPMS3015\* Install and test ducting systems
- CPCPMS3031\* Fabricate and install steel pressure piping
- CPCPMS3032\* Select and fit insulation and sheathing
- CPCPMS3036\* Install air handling units
- CPCPMS3038\* Install air conditioning control equipment
- CPCPMS3039\* Maintain mechanical services equipment

#### **Group F Mechanical Electives**

- CPCCCM2008\* Erect and dismantle restricted height scaffolding
- CPCCCM3001 Operate elevated work platforms up to 11 metres
- CPCPCM2053\* Weld using manual metal arc welding equipment
- CPCPMS3033\* Install small bore heating systems
- CPCPMS3034\* Install and test medical gas pipeline systems
- CPCPMS3037\* Install and commission a single head split system air conditioning
- CPCPMS3040\* Install and maintain evaporative air-cooling systems
- CPCPMS3041\* Install domestic solid fuel burning appliances
- UEENEE101A Apply occupational health and safety regulations, codes and practices in the workplace
- UEENEE102A\* Prepare and connect refrigerant tubing and fittings
- UEENEE105A\* Position, assemble and start up single head split air conditioning and water heating heat pump systems
- UEENEE172A\* Recover, pressure test, evacuate, charge and leak test refrigerants – split systems

#### **Group G General Electives**

- CPCCCM2008\* Erect and dismantle restricted height scaffolding
- CPCCCM3001 Operate elevated work platforms up to 11 metres
- CPCWC2001 Complete penetrations and flashings
- CPCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
- CPCPCM2049\* Cut mild steel using oxy-LPG-acetylene equipment
- CPCPFS3037\* Install domestic residential life safety sprinkler systems

CPCPFS3038*	Test and maintain fire hydrants and hose reel installations
CPCPGS3046*	Install LPG systems in caravans, mobile homes and mobile workplaces
CPCPIG3021A*	Set out, install & commission irrigation systems
CPCPIG2021A*	Design domestic urban irrigation systems
CPCPIG3022A*	Install & commission domestic irrigation pumps
CPCPSN3025*	Install pre-treatment facilities
CPCPSN3026*	Install sewerage pumpsets
CPCPWT3024	Install and maintain domestic water treatment equipment
CPCPWT3028	Install water service
CPCPWT3029	Install water pipe systems
MEM05049*	Perform routine gas tungsten arc welding
MEM05050*	Perform routine gas metal arc welding
MEM11011*	Undertake manual handling
MEM13015*	Work safely and effectively in manufacturing and engineering
MEM16006*	Organise and communicate information
RIIWH5202D	Enter and work in confined spaces

#### QUALIFICATION MAPPING INFORMATION

Code and Title	CPC08 Construction, Plumbing and Services Training Package	Comments	Equivalency statement
CPC32419 Certificate III in Plumbing	CPC32413 Certificate III in Plumbing	Supersedes and equivalent to CPC32413 Certificate III in Plumbing.	E

#### LINKS

An Implementation Guide to this Training Package is available:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>