



**Australian Government**

# **CPC32420 Certificate III in Plumbing**

**Release: 6**

## CPC32420 Certificate III in Plumbing

### Modification History

- Release 6 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.6.  
Typographical correction made to title of HLTAID011 Provide First Aid.
- Release 5 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.5.  
In the Packaging Rules, Option 3: General Plumber - Mechanical, changed to read Option 3: General Plumbing - Mechanical.
- Release 4 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.4.  
Rectified elective unit wording from 'An additional 4 elective units may be selected...' to read 'Up to 4 elective units may be replaced by units from any...'
- Release 3 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.2.  
Addition of CPCPCM2052 Weld mild steel using oxy-acetylene equipment and CPCPCM2055 Work safely on roofs to unit grid.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.  
Addition of CPCPRF2024 Fabricate roof coverings for curved structures to Group D Elective units.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.  
Supersedes and is not equivalent to CPC32413 Certificate III in Plumbing.  
Updated to meet the Standards for Training Packages 2012.

### Qualification Description

This is a trade qualification for plumbers in residential, industrial and commercial workplaces who are responsible for assembling, installing and maintaining water services, sanitary plumbing and sanitary drainage, gas, roofing and mechanical services 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 *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 be awarded this qualification, competency in one of the four occupational options must be achieved.

OPTION 1: General Plumbing

***For the award of the CPC32420 Certificate III in Plumbing (General Plumber) a minimum of 58 units are to be completed as follows:***

- 43 core units
- 15 elective units

Electives are to be selected as followed:

- 8 units from Group A and
- 4 units from Group B and
- 3 units from Group C

Up to 4 elective units may be replaced by units from any other group or from any relevant nationally endorsed Training Package or accredited course. The units must contribute to the vocational outcomes of the qualification.

OPTION 2: General Plumbing – Roofing

***For the award of the CPC32420 Certificate III in Plumbing (General Plumber and Roofing) a minimum of 62 units are to be completed as follows:***

- 43 core units

- 19 elective units.

Electives are to be selected as followed:

- 8 units from Group A and
- 4 units from Group B and
- 3 units from Group C and
- 4 units from Group D

Up to 4 elective units may be replaced by units from any other group or from any relevant nationally endorsed Training Package or accredited course. The units must contribute to the vocational outcomes of the qualification.

OPTION 3: General Plumbing – Mechanical

***For the award of the CPC32420 Certificate III in Plumbing (General Plumbing and Mechanical) a minimum of 73 units are to be completed as follows:***

- 43 core units
- 30 electives

Electives are to be selected as followed:

- 8 units from Group A and
- 4 units from Group B and
- 3 units from Group C and
- 7 units from Group E and
- 8 units from Group F

Up to 4 elective units may be replaced by units from any other group or from any relevant nationally endorsed Training Package or accredited course. The units must contribute to the vocational outcomes of the qualification.

OPTION 4: General Plumbing – Roofing and Mechanical

***For the award of the CPC32420 Certificate III in Plumbing (General Plumber Roofing and Mechanical) a minimum of 77 units are to be completed as follows:***

- 43 core units
- 34 electives

Electives are to be selected as followed:

- 8 units from Group A and
- 4 units from Group B and
- 3 units from Group C and
- 4 units from Group D and
- 7 units from Group E and
- 8 units from Group F

Up to 4 elective units may be replaced by units from any other group or from any relevant nationally endorsed Training Package or accredited course. The units must contribute to the vocational outcomes of the qualification.

An asterisk (\*) against a unit code below indicates that the unit has a prerequisite. Please check the unit for information on this. All prerequisites are packaged in the qualification.

### Core Units

CPCCCM2012*	Work safely at heights
CPCPCM2039	Carry out interactive workplace communication
CPCPCM2040*	Read plans, 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
CPCPCM2054*	Carry out simple concreting and rendering
CPCPCM2055*	Work safely on roofs
CPCPCM3021*	Flash penetrations through roofs and walls
CPCPCM3022*	Weld polymer pipes using fusion method
CPCPCM3023*	Fabricate and install non-ferrous pressure piping
CPCPCM3024*	Prepare simple drawings
CPCPCM3025*	Install trench support
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 wastewater treatment plants and disposal systems
CPCPFS3031*	Fabricate and install fire hydrant and hose reel systems
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 and fabricate and install sanitary stacks
CPCPSN3022*	Install discharge pipes
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*	Install backflow prevention devices
CPCPRF2023*	Collect and store roof water
CPCPRF3022*	Fabricate and install roof drainage systems
CPCPRF3023*	Fabricate and install external flashings
CPCPRF3024*	Install roof components
HLTAID011	Provide First Aid

## **Electives Units**

### **Group A**

CPCCCM2008*	Erect and dismantle restricted height scaffolding
CPCCCM3001	Operate elevated work platforms up to 11 metres

CPCPCM2049*	Cut using oxy-acetylene equipment
CPCPCM2052*	Weld mild steel using oxy-acetylene equipment
CPCPFS3037*	Install residential life safety sprinkler systems
CPCPFS3038*	Test and maintain fire hydrant and hose reel installations
CPCPIG2021*	Design domestic urban irrigation systems
CPCPIG3021*	Set out, install and commission irrigation systems
CPCPIG3022*	Install and commission domestic irrigation pumps
CPCPWT3024*	Install and maintain domestic water treatment equipment
CPCPWT3028*	Install property service
CPCPWT3029*	Install water pipe systems
CPCPWT3030*	Install home fire sprinkler systems
MEM11011*	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006*	Organise and communicate information
MEM05049*	Perform routine gas tungsten arc welding
MEM05050*	Perform routine gas metal arc welding
RIIWHS202E	Enter and work in confined spaces

## Group B

CPCPCM2053*	Weld using 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 8 kl
CPCPGS3047*	Install LPG systems in marine craft

**Group C**

CPCPDR3025*	Plan layout and install vacuum drainage systems
CPCPSN3025*	Install pre-treatment facilities
CPCPSN3026*	Install sewerage pumpsets
RIIWHS202E	Enter and work in confined spaces
RIICTT306E	Install cure in-place linings for existing pipeline systems

**Group D**

CPCCCM2008*	Erect and dismantle restricted height scaffolding
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPRF2022*	Select and install roof sheeting and wall cladding
CPCPRF2024*	Fabricate roof coverings for curved structures
CPCPRF3021*	Receive roofing materials
CPCPRF3025*	Install roof coverings to curved roof structures
CPCPRF3026*	Install roof sheets, wall cladding and complex flashings
CPCPRF3027*	Select and install a heritage roof system

**Group E**

CPCPMS2021*	Assemble mechanical services components
CPCPMS3031*	Fabricate and install steel pressure piping
CPCPMS3032*	Select and fit insulation and sheathing
CPCPMS3035*	Install and test ducting systems
CPCPMS3036*	Install air handling units
CPCPMS3038*	Install air conditioning control equipment
CPCPMS3039*	Maintain mechanical services equipment



**Group F**

CPCCCM2008*	Erect and dismantle restricted height scaffolding
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCCCWC2001*	Complete penetrations and flashings
CPCCWHS2001	Apply WHS requirements, policies and procedures in the construction industry
CPCPCM2053*	Weld using 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 commission evaporative air cooling systems
CPCPMS3041*	Install domestic solid fuel burning appliances
UEECD0007*	Apply work health and safety regulations, codes and practices in the workplace
UEERA0049*	Install and start up single head split air conditioning and water heating heat pump systems
UEERA0059*	Prepare and connect refrigerant tubing and fittings
UEERA0064*	Recover, pressure test, evacuate, charge and leak test refrigerants - split systems

**Qualification Mapping Information**

<b>CPC Construction, Plumbing and Services Training Package 5.0</b>	<b>CPC08 Construction, Plumbing and Services Training Package</b>	<b>Comments</b>	<b>E/NE</b>
CPC32420 Certificate III in Plumbing.	CPC32413 Certificate III in Plumbing.	Supersedes and is not equivalent to CPC32413 Certificate III in Plumbing.	NE

		Updated to meet the Standards for Training Packages 2012.	
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## Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>