Qualification Template

**QUALIFICATION CODE** CPC32420

**QUALIFICATION TITLE** Certificate III in Plumbing

**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

Elective 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.

Elective 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 Plumber – Mechanical**

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

* 43 core units
* 30 electives

Elective 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 81* units are to be completed as follows:**

* 43 core units
* 38 electives

Elective 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 |
| HLTAID003  | 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 mild steel using oxy-LPG-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 |
| CPCCWT3030\* | 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 |
| RIIWHS202D | Enter and work in confined spaces |

**Group B**

|  |  |
| --- | --- |
| 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 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 |
| RIIWHS202D | 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 |
| 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 |
| CPCCWC2001\* | 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 maintain evaporative air-cooling systems |
| CPCPMS3041\* | Install domestic solid fuel burning appliances |
| UEENEEE101A | Apply occupational health and safety regulations, codes and practices in the workplace |
| UEENEEJ102A\* | Prepare and connect refrigerant tubing and fittings |
| UEENEEJ105A\* | Position, assemble and start up single head split air conditioning and water heating heat pump systems |
| UEENEEJ172A\* | Recover, pressure test, evacuate, charge and leak test refrigerants – split systems |

# QUALIFICATION MAPPING INFORMATION

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| --- | --- | --- | --- |
| **Code and Title** | **CPC Construction, Plumbing and Services Training Package** | **Comments** | **Equivalency statement** |
| CPC32420 Certificate III in Plumbing | CPC32413 Certificate III in Plumbing  | Supersedes and not equivalent to CPC32413 Certificate III in Plumbing. | N |

**LINKS**

An Implementation Guide to this Training Package is available: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad.