



Australian Government

CPC32420 Certificate III in Plumbing

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Modification History

Release	Comments
8	New unit of competency <i>CPCPGS3026 Assess operational risk when working with hydrogen</i> added to Group A electives. Superseded imported units updated.
7	Updated reference to general construction induction training program.
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.
5	This version first released with CPC Construction, Plumbing and Services Training Package Release 6.5. In the Packaging Rules, Option 3: General Plumber - Mechancial, changed to read Option 3: General Plumbing - Mechancial.
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...!'.
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.
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.
1	This qualification was first released in CPC Construction, Plumbing and Services Training Package Release 5.0.

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 *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

This qualification is suitable for an Australian Apprenticeship pathway.

Licensing/Regulatory Information

This is a licensed 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.

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 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 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 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 *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
CPCPGS3026	Assess operational risk when working with hydrogen
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
RIIWHS202	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
RIIWHS202	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
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 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

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
CPCCCM2008 Erect and dismantle restricted height scaffolding	CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
CPCCCM2012 Work safely at heights	CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

CPCWC2001 Complete penetrations and flashings	CPCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
CPCPCM2040 Read plans, calculate quantities and mark out materials	CPCPCM2043 Carry out WHS requirements CPCPCM3024 Prepare simple drawings
CPCPCM2045 Handle and store plumbing materials	CPCPCM2043 Carry out WHS requirements
CPCPCM2046 Use plumbing hand and power tools	CPCPCM2043 Carry out WHS requirements
CPCPCM2047 Carry out levelling	CPCPCM2043 Carry out WHS requirements
CPCPCM2048 Cut and join sheet metal	CPCPCM2043 Carry out WHS requirements
CPCPCM2049 Cut using oxy-acetylene equipment	CPCPCM2043 Carry out WHS requirements
CPCPCM2052 Weld mild steel using oxy-acetylene equipment	CPCPCM2043 Carry out WHS requirements
CPCPCM2053 Weld using metal arc welding equipment	CPCPCM2043 Carry out WHS requirements
CPCPCM2054 Carry out simple concreting and rendering	CPCPCM2043 Carry out WHS requirements
CPCPCM2055 Work safely on roofs	CPCPCM2043 Carry out WHS requirements
CPCPCM3021 Flash penetrations through roofs and walls	CPCPCM2043 Carry out WHS requirements
CPCPCM3022 Weld polymer pipes using fusion method	CPCPCM2043 Carry out WHS requirements
CPCPCM3023 Fabricate and install non-ferrous pressure piping	CPCPCM2043 Carry out WHS requirements
CPCPCM3024 Prepare simple drawings	CPCPCM2043 Carry out WHS requirements
CPCPCM3025 Install trench support	CPCPCM2043 Carry out WHS requirements
CPCPDR2021 Locate and clear blockages	CPCPCM2043 Carry out WHS requirements

CPCPDR2025 Install stormwater and sub-soil drainage systems and drain work site	CPCPCM2043 Carry out WHS requirements
CPCPDR2026 Install prefabricated inspection openings and inspection chambers	CPCPCM2043 Carry out WHS requirements
CPCPDR3021 Plan layout and install below ground sanitary drainage systems	CPCPCM2043 Carry out WHS requirements CPCPCM3024 Prepare simple drawings
CPCPDR3023 Install on-site domestic wastewater treatment plants and disposal systems	CPCPCM2043 Carry out WHS requirements
CPCPDR3025 Plan layout and install vacuum drainage systems	CPCPCM2043 Carry out WHS requirements
CPCPFS3031 Fabricate and install fire hydrant and hose reel systems	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping
CPCPFS3037 Install residential life safety sprinkler systems	CPCPCM2043 Carry out WHS requirements
CPCPFS3038 Test and maintain fire hydrant and hose reel installations	CPCPCM2043 Carry out WHS requirements
CPCPGS3046 Install LPG systems in caravans, mobile homes and mobile workplaces	CPCPCM2043 Carry out WHS requirements
CPCPGS3047 Install LPG systems in marine craft	CPCPCM2043 Carry out WHS requirements
CPCPGS3048 Install gas pressure control equipment	CPCPCM2043 Carry out WHS requirements
CPCPGS3049 Install gas appliance flues	CPCPCM2043 Carry out WHS requirements CPCPCM3021 Flash penetrations through roofs and walls
CPCPGS3051 Purge consumer piping	CPCPCM2043 Carry out WHS requirements
CPCPGS3052 Maintain Type A gas appliances	CPCPCM2043 Carry out WHS requirements

	CPCPGS3054 Calculate and install natural ventilation for Type A gas appliances
CPCPGS3053 Disconnect and reconnect Type A gas appliances	CPCPCM2043 Carry out WHS requirements
CPCPGS3054 Calculate and install natural ventilation for Type A gas appliances	CPCPCM2043 Carry out WHS requirements
CPCPGS3055 Install gas sub-meters	CPCPCM2043 Carry out WHS requirements
CPCPGS3056 Size and install consumer gas piping systems	CPCPCM2043 Carry out WHS requirements
CPCPGS3059 Install LPG storage of aggregate storage capacity up to 500 litres	CPCPCM2043 Carry out WHS requirements
CPCPGS3060 Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8 kl	CPCPCM2043 Carry out WHS requirements
CPCPGS3061 Install and commission Type A gas appliances	CPCPCM2043 Carry out WHS requirements CPCPGS3054 Calculate and install natural ventilation for Type A gas appliances
CPCPIG2021 Design domestic urban irrigation systems	CPCPCM2043 Carry out WHS requirements
CPCPIG3021 Set out, install and commission irrigation systems	CPCPCM2043 Carry out WHS requirements
CPCPIG3022 Install and commission domestic irrigation pumps	CPCPCM2043 Carry out WHS requirements
CPCPMS3031 Fabricate and install steel pressure piping	CPCPCM2043 Carry out WHS requirements
CPCPMS3032 Select and fit insulation and sheathing	CPCPCM2043 Carry out WHS requirements
CPCPMS3033 Install small bore heating systems	CPCPCM2043 Carry out WHS requirements
CPCPMS3034 Install and test medical gas pipeline systems	CPCPCM2043 Carry out WHS requirements

CPCPMS3035 Install and test ducting systems	CPCPCM2043	Carry out WHS requirements
CPCPMS3036 Install air handling units	CPCPCM2043	Carry out WHS requirements
CPCPMS3037 Install and commission a single head split system air conditioning	CPCPCM2043	Carry out WHS requirements
CPCPMS3038 Install air conditioning control equipment	CPCPCM2043	Carry out WHS requirements
CPCPMS3039 Maintain mechanical services equipment	CPCPCM2043	Carry out WHS requirements
CPCPMS3040 Install and commission evaporative air cooling systems	CPCPCM2043	Carry out WHS requirements
	CPCPCM2055	Work safely on roofs
	CPCPCM3021	Flash penetrations through roofs and walls
	CPCPWT3029	Install water pipe systems
CPCPMS3041 Install domestic solid fuel burning appliances	CPCWC2001	Complete penetrations and flashings
	CPCPCM2043	Carry out WHS requirements
	CPCPCM2055	Work safely on roofs
CPCPRF2022 Select and install roof sheeting and wall cladding	CPCPCM2043	Carry out WHS requirements
	CPCPCM2055	Work safely on roofs
CPCPRF2023 Collect and store roof water	CPCPCM2043	Carry out WHS requirements
CPCPRF2024 Fabricate roof coverings for curved structures	CPCPCM2043	Carry out WHS requirements
CPCPRF3021 Receive roofing materials	CPCPCM2043	Carry out WHS requirements
CPCPRF3022 Fabricate and install roof drainage systems	CPCPCM2043	Carry out WHS requirements
	CPCPCM2055	Work safely on roofs
CPCPRF3023 Fabricate and install external flashings	CPCPCM2043	Carry out WHS requirements
	CPCPCM2055	Work safely on roofs

CPCPRF3024 Install roof components	CPCPCM2043 Carry out WHS requirements CPCPCM2055 Work safely on roofs
CPCPRF3025 Install roof coverings to curved roof structures	CPCPCM2043 Carry out WHS requirements CPCPCM2055 Work safely on roofs
CPCPRF3026 Install roof sheets, wall cladding and complex flashings	CPCPCM2043 Carry out WHS requirements CPCPCM2055 Work safely on roofs
CPCPRF3027 Select and install a heritage roof system	CPCPCM2043 Carry out WHS requirements CPCPCM2055 Work safely on roofs
CPCPSN3011 Plan the layout of a residential sanitary plumbing system and fabricate and install sanitary stacks	CPCPCM2043 Carry out WHS requirements
CPCPSN3022 Install discharge pipes	CPCPCM2043 Carry out WHS requirements
CPCPSN3025 Install pre-treatment facilities	CPCPCM2043 Carry out WHS requirements
CPCPSN3026 Install sewerage pumpsets	CPCPCM2043 Carry out WHS requirements
CPCPWT3020 Connect and install storage tanks to a domestic water supply	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping
CPCPWT3021 Set out and install water services	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping
CPCPWT3022 Install and commission water heating systems and adjust controls and devices	CPCPCM2043 Carry out WHS requirements
CPCPWT3024 Install and maintain domestic water treatment equipment	CPCPCM2043 Carry out WHS requirements
CPCPWT3025 Install water pumpsets	CPCPCM2043 Carry out WHS requirements
CPCPWT3026 Install and fit off sanitary fixtures, water services and adjust water service controls	CPCPCM2043 Carry out WHS requirements

CPCPWT3027 Install backflow prevention devices	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping
CPCPWT3028 Install property service	CPCPCM2043 Carry out WHS requirements
CPCPWT3029 Install water pipe systems	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping
CPCPWT3030 Install home fire sprinkler systems	CPCPCM2043 Carry out WHS requirements CPCPCM3023 Fabricate and install non-ferrous pressure piping
MEM05049 Perform routine gas tungsten arc welding	MEM11011 Undertake manual handling MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
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
MEM11011 Undertake manual handling	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
UEERA0049 Install and start up single head split air conditioning and water heating heat pump systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERA0059 Prepare and connect refrigerant tubing and fittings

	UEERA0064 Recover, pressure test, evacuate, charge and leak test refrigerants - split systems
UEERA0059 Prepare and connect refrigerant tubing and fittings	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0064 Recover, pressure test, evacuate, charge and leak test refrigerants - split systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
CPC32420 Certificate III in Plumbing	CPC32413 Certificate III in Plumbing	Supersedes and is not equivalent to CPC32413 Certificate III in Plumbing.	Not equivalent

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/CPC>.