



Victoria Government Gazette

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Building Act 1993 **PLUMBING REGULATIONS 2018** **Regulation 45**

Approved Competency Units for the Purposes of Part 6 of the Plumbing Regulations 2018

The Victorian Building Authority (the Authority), by this notice and in accordance with regulation 45 of the Plumbing Regulations 2018, approves the following competency units for each class of plumbing work and specialised plumbing work.

1. Authorising provisions

1.1. This notice is made pursuant to regulation 45 of the Plumbing Regulations 2018.

2. Commencement

2.1 This notice and the competency units listed herein takes effect on the date of this Government Gazette.

3. Revocation of prior notices

3.1 The notice published in the Victoria Government Gazette No. S 542 on 16 November 2018 titled 'Approved Competency Units for the Purposes of Part 6 of the Plumbing Regulations 2018' ('Prior Notice') is revoked.

4. Transitional provisions

4.1 Any act performed, policy issued or anything done pursuant to a Prior Notice shall not be invalidated or otherwise rendered unenforceable by reason of its revocation.

4.2 A competency unit specified in a Prior Notice, and that is a component of a Certificate course that is a qualification required for registration or a licence under section 221O, 221OA, 221M or 221N of the **Building Act 1993**, is deemed to be an approved competency unit for the purpose of that Certificate course in respect of an individual if that individual was enrolled in that competency unit before the commencement of this notice.

5. Approved competency units for classes of plumbing work

The Plumbing Regulations 2018 set out the qualifications required for registration and licensing in each of the prescribed classes of plumbing work. The qualifications include an educational and a practical component.

5.1 Registration

5.1.2 The approved competency units for registration for each class of plumbing work are:

Competency units for registration – Drainage work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCPCM2054	Carry out simple concreting and rendering

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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
CPCPSN3025	Install pre-treatment facilities

Competency units for registration – Fire protection work

CPCPCM2039	Carry out interactive workplace communication
CPCPCM2040	Read plans, calculate quantities and mark out materials
CPCPCM2041	Work effectively in the plumbing and services sector
CPCPCM2043	Carry out WHS requirements
CPCPCM2045	Handle and store plumbing materials
CPCPCM2046	Use plumbing hand and power tools
CPCPCM2047	Carry out levelling
CPCPCM2049	Cut using oxy-LPG-acetylene equipment
CPCPCM2052	Weld mild steel using oxy-acetylene equipment
CPCPCM2053	Weld using metal arc welding equipment
CPCPCM3023	Fabricate and install non-ferrous pressure piping
CPCPFS2021	Connect static storage tanks for fixed fire protection systems
CPCPFS3030	Design fire sprinkler systems using pre-calculated charts and tables
CPCPFS3031	Fabricate and install fire hydrant and hose reel systems
CPCPFS3034	Install control valve assemblies, actuating devices and local alarms
CPCPFS3036	Install special hazard systems
CPCPFS3037	Install residential life safety sprinkler systems
CPCPFS3038	Test and maintain fire hydrant and hose reel installations
CPCPFS3040	Conduct basic functional testing of water-based fire-suppression systems
CPCPFS3041	Inspect and test fire pumpsets
CPCPFS3042	Conduct annual routine service of complex water-based fire-suppression systems
CPCPFS3043	Conduct functional water flow testing
CPCPFS3044	Install distribution and range pipes
CPCPFS3045	Fit off sprinkler heads, controls and ancillary equipment
CPCPFS3046	Test the integrity of water-based fire protection systems using pressure
CPCPFS3047	Test and maintain automatic fire sprinklers

CPCPFS3048	Install fixed fire pumpsets
CPCPMS3031	Fabricate and install steel pressure piping
CPCPWT3028	Install property service
CPPFES2025A	Inspect, test and maintain gaseous fire-suppression systems
CPPFES2043A	Prevent ozone depleting substance and synthetic greenhouse gas emissions
CPPFES2047A	Inspect and test control and indicating equipment
CPCPCM2048	Cut and join sheet metal
CPCCCM2012	Work safely at heights
CPCPCM2055	Work safely on roofs
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPCM3024	Prepare simple drawings
CPCPFS3049	Conduct preventive maintenance on fixed fire pumpsets
CPCPWT3025	Install water pumpsets
CPCPWT3029	Install water pipe systems
HLTAID011	Provide first aid

Competency units for registration – Gasfitting work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCCCM2012	Work safely at heights
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPCM2048	Cut and join sheet metal
CPCPCM2049	Cut using oxy-LPG-acetylene equipment
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
CPCPCM3023	Fabricate and install non-ferrous pressure piping
CPCPCM3025	Install trench support
CPCPGS3046	Install LPG systems in caravans, mobile homes and mobile workplaces
CPCPGS3047	Install LPG systems in marine craft
CPCPGS3048	Install gas pressure control equipment
CPCPGS3049	Install gas appliance flues

CPCPGS3051	Purge consumer piping
CPCPGS3052	Maintain Type A gas appliances
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
CPCPGS3060	Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8 kl
CPCPGS3061	Install and commission Type A gas appliances

Competency units for registration – Irrigation (non-agricultural) work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCPCM2054	Carry out simple concreting and rendering
CPCPCM3023	Fabricate and install non-ferrous pressure piping
CPCPCM3025	Install trench support
CPCPWT3020	Connect and install storage tanks to a domestic water supply
CPCPIG2021	Design domestic urban irrigation systems
CPCPIG3021	Set out, install and commission irrigation systems
CPCPIG3022	Install and commission domestic irrigation pumps

Competency units for registration – Mechanical services work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCCCM2012	Work safely at heights
CPCPCM2048	Cut and join sheet metal

CPCPCM2055	Work safely on roofs
CPCPCM3021	Flash penetrations through roofs and walls
CPCPCM3023	Fabricate and install non-ferrous pressure piping
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPCM2049	Cut using oxy-LPG-acetylene equipment
CPCPCM2052	Weld mild steel using oxy-acetylene equipment
CPCPMS3033	Install small bore heating systems
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
CPCPCM2053	Weld using metal arc welding equipment
CPCPMS3034	Install and test medical gas pipeline systems
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

Competency units for registration – Refrigerated air-conditioning work

UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work
UEECD0019	Fabricate, assemble and dismantle utilities industry components
UEECD0020	Fix and secure electrotechnology equipment
UEECD0042	Solve problems in ELV single path circuits
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications
UEECO0010	Participate in refrigeration and air conditioning work and competency development activities
UEERA0031	Diagnose and rectify faults in air conditioning and refrigeration control systems
UEERA0035	Establish the basic operating conditions of air conditioning systems
UEERA0036	Establish the basic operating conditions of vapour compression systems

UEERA0044	Find and rectify faults in single phase motors and associated controls
UEERA0045	Find and rectify faults in three phase motors and associated controls
UEERA0050	Install refrigerant pipe work, flow controls and accessories
UEERA0051	Install, commission, service and maintain air conditioning systems
UEERA0053	Install, commission, service and maintain medium temperature systems
UEERA0059	Prepare and connect refrigerant tubing and fittings
UEERA0062	Recover and charge refrigerants
UEERA0079	Safely handle refrigerants and lubricants
UEERA0081	Select refrigerant piping, accessories and associated controls
UEERA0092	Solve problems in low voltage refrigeration and air conditioning circuits
UEERA0094	Verify functionality and compliance of refrigeration and air conditioning installations
UEERE0001	Apply environmentally and sustainable procedures in the energy sector
UEERL0001	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply
UEERL0002	Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERL0004	Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring
UEERL0005	Locate and rectify faults in low voltage (LV) electrical equipment using set procedures
HLTAID011	Provide first aid
UEERA0005	Apply safety awareness and legal requirements for ammonia refrigerant
UEERA0006	Apply safety awareness and legal requirements for carbon dioxide refrigerant
UEERA0007	Apply safety awareness and legal requirements for flammable refrigerants
UEERA0065	Repair and service ammonia refrigeration systems
UEERA0066	Repair and service carbon dioxide refrigeration systems
UEERA0067	Repair and service secondary refrigeration systems
UEERA0084	Service and repair self-contained flammable refrigerants air conditioning and refrigeration systems

Competency units for registration – Roofing (stormwater) work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCCCM2012	Work safely at heights
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
CPCPRF2023	Collect and store roof water
CPCPRF3023	Fabricate and install external flashings
CPCPRF3024	Install roof components
CPCPRF3025	Install roof coverings to curved roof structures
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPRF2022	Select and install roof sheeting and wall cladding
CPCPRF3021	Receive roofing materials
CPCPRF3022	Fabricate and install roof drainage systems
CPCPRF3026	Install roof sheets, wall cladding and complex flashings

Competency units for registration – Sanitary work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCCCM2012	Work safely at heights
CPCCCM3001	Operate elevated work platforms up to 11 metres
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
CPCPDR2021	Locate and clear blockages
CPCPSN3011	Plan the layout of a residential sanitary plumbing system and fabricate and install sanitary stacks
CPCPSN3022	Install discharge pipes
CPCPSN3025	Install pre-treatment facilities
CPCPWT3026	Install and fit off sanitary fixtures, water services and adjust water service controls

CPCPCM2048	Cut and join sheet metal
CPCPSN3026	Install sewerage pumpsets

Competency units for registration – Type B gasfitting work

CPCPGS4023	Install, commission and service Type B gas appliances
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Competency units for registration – Water supply work

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
CPCPCM3022	Weld polymer pipes using fusion method
CPCPCM3024	Prepare simple drawings
HLTAID011	Provide first aid
CPCCCM2012	Work safely at heights
CPCPCM2054	Carry out simple concreting and rendering
CPCPCM2055	Work safely on roofs
CPCPCM3021	Flash penetrations through roofs and walls
CPCPCM3023	Fabricate and install non-ferrous pressure piping
CPCPCM3025	Install trench support
CPCPFS3031	Fabricate and install fire hydrant and hose reel systems
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
CPCCCM3001	Operate elevated work platforms up to 11 metres
CPCPCM2049	Cut 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

5.2 Licence

5.2.2 The approved competency units for a licence for each class of plumbing work are:

Competency units for licence – Drainage work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPDR4011	Design and size sanitary drainage systems
CPCPDR4012	Design and size stormwater drainage systems
CPCPDR4013	Design and size domestic treatment plant disposal systems

Competency units for licence – Fire protection work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCBC4012	Read and interpret plans and specifications
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPFS4024	Design residential fire sprinkler systems
CPCPFS4021	Commission domestic and residential fire suppression sprinkler systems

Competency units for licence – Gasfitting work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPGS4011	Design and size consumer gas installations

Competency units for licence – Irrigation (non-agricultural) work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Mechanical services work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPMS4011	Design, size and lay out heating and cooling systems

Competency units for licence – Refrigerated air-conditioning work

UEERA0054	Maintain microbial control of refrigeration and air conditioning systems
UEERA0094	Verify functionality and compliance of refrigeration and air conditioning installations
BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Roofing (stormwater) work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPRF4011	Design and size roof drainage systems

Competency units for licence – Sanitary work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPSN4011	Design and size sanitary plumbing systems

Competency units for licence – Type B gasfitting work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCPCM4011	Carry out work-based risk control processes

CPCPCM4012	Estimate and cost work
CPCBC4012	Read and interpret plans and specifications
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Water supply work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry
CPCPWT4011	Design and size heated and cold-water services and systems

6. Approved competency units for classes of specialised plumbing work

Registration and licensing requirements

The Plumbing Regulations 2018 set out the qualifications required for registration and licensing in each of the prescribed classes of specialised plumbing work. The qualifications include an educational and a practical component.

6.1 Registration

6.1.1 The approved competency units for registration for each class of specialised plumbing work are:

Competency units for registration – Backflow prevention work

CPCPWT4022	Commission and maintain backflow prevention devices
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Competency units for registration – Type A appliance conversion work

CPCPGS4022	Service Type A gas appliances
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Competency units for registration – Type A appliance servicing work

CPCPGS4022	Service Type A gas appliances
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Competency units for registration – Type B gasfitting advanced work

CPCPGS4023	Install, commission and service Type B gas appliances
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Competency units for registration – Thermostatic mixing valve work

CPCPWT4023	Commission and maintain hot and heated water temperature control devices
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6.2 Licence

6.2.1 The approved competency units for a licence for each class of specialised plumbing work are:

Competency units for licence – Backflow prevention work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Type A appliance conversion work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Type A appliance servicing work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Type B gasfitting advanced work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCBC4012	Read and interpret plans and specifications
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

Competency units for licence – Thermostatic mixing valve work

BSBESB402	Establish legal and risk management requirements of new business ventures
CPCBC4012	Read and interpret plans and specifications
CPCPCM4011	Carry out work-based risk control processes
CPCPCM4012	Estimate and cost work
CPCPCM4015	Access and interpret regulatory requirements for the plumbing and services industry

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