

Victoria Government Gazette

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Building Act 1993

PLUMBING REGULATIONS 2018

Regulation 45

Victorian Building Authority

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

The Victorian Building 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 or specialised plumbing work.

1. Authorising provisions

This Notice is made pursuant to:

- 1.1 Regulation 45 of the Plumbing Regulations 2018; and
- 1.2 Section 26 of the **Interpretation of Legislation Act 1984**.

2. Commencement

- 2.1 Clauses 5 and 6 of this notice come into effect on 18 November 2018.
- 2.2 Clause 7 of this notice comes into effect on 18 November 2019.

3. Revocation of prior notices

3.1 The notice published in the Victoria Government Gazette No. G 41 on 9 October 2014 titled 'Approved Competency Units for the Purposes of Part 12 of the Plumbing Regulations 2008' ('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 repeal.
- 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 commencing on 18 November 2018

Schedule 4, Part 1 – Qualifications and experience required in respect of classes of plumbing work

5.1 Registration

- 5.1.1 The qualifications and experience required for registration under section 221O of the **Building Act 1993** to carry out a class of plumbing work are:
 - (a) a Certificate III course relating to plumbing work (except in the case of Drainage work or Irrigation (non-agricultural) work where a Certificate II course is sufficient) that includes the approved competency units for that class of plumbing work; and
 - (b) the Authority's examination of competencies for that class of plumbing work.

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

Competencies	for Registration -	Drainage work

CPCPCM2039A Carry out interactive workplace communication
CPCPCM2040A Read plans and calculate plumbing quantities
CPCPCM2041A Work effectively in the plumbing and services sector

CPCPCM2043A Carry out WHS requirements

CPCPCM2045A Handle and store plumbing materials CPCPCM2046A Use plumbing hand and power tools

CPCPCM2047A Carry out levelling

HLTFA211A Provide basic emergency life support CPCPCM2054A Carry out simple concreting and rendering

CPCPDR2021A Locate and clear blockages
CPCPDR2022A Install domestic treatment plants
CPCPDR2023A Maintain effluent disinfection systems

CPCPDR2024A Install stormwater and sub-soil drainage systems

CPCPDR2025A Drain work site

CPCPDR2026A Install prefabricated inspection openings and enclosures
CPCPDR3021A Plan layout of a residential sanitary drainage system
CPCPDR3022A Install below ground sanitary drainage systems

CPCPDR3023A Install on-site disposal systems

RIICCM210A Install trench support

CPCPSN3025A Install pre-treatment facilities

Competencies for Registration – Fire Protection work

CPCPCM2039A Carry out interactive workplace communication CPCPCM2040A Read plans and calculate plumbing quantities

CPCPCM2041A Work effectively in the plumbing and services sector

CPCPCM2043A Carry out WHS requirements

CPCPCM2045A Handle and store plumbing materials CPCPCM2046A Use plumbing hand and power tools

CPCPCM2047A Carry out levelling
CPCPCM2048A Cut and join sheet metal

CPCPCM2049A Cut with Oxy-LPG / Acetylene equipment

CPCPCM2050A Mark out materials

HLTFA211A Provide basic emergency life support CPCPCM2052A Weld using oxy-acetylene equipment

CPCPCM2053A Weld using manual metal arc welding equipment CPCPCM3023A Fabricate and install non-ferrous pressure piping

CPCPFS2021A Connect static storage tanks for fixed fire protection systems
CPCPFS3031A Fabricate and install fire hydrant and hose reel systems
CPCPFS3034A Install control valve assemblies, actuating devices and local

alarms

CPCPFS3036A Install special hazard systems

CPCPFS3037A Install domestic and residential life safety sprinkler systems

CPCPFS3038A	Test and maintain fire hydrant and hose reel installations
CPCPFS3039A	Test and maintain automatic fire sprinklers
CPCPFS3030A	Design pre-calculated fire sprinkler systems
CPCPFS3044A	Install distribution and range pipes
CPCPFS3045A	Fit-off sprinkler heads, controls and ancillary equipment
CPCPFS3046A	Test the integrity of water-based fire protection systems using pressure
CPCPMS3031A	Fabricate and install steel pressure piping
CPPFES2025A	Inspect, test and maintain gaseous fire suppression systems
CPPFES2047A	Inspect and test control and indicating equipment
CPPFES2043A	Prevent ozone depleting substance and synthetic greenhouse gas emissions
CPCPWT3025A	Install water pumpsets
CPCPWT3028A	Install water service
CPCPFS3040A	Conduct basic functional testing of water-based fire suppression systems
CPCPFS3041A	Inspect and test fire pumpsets
CPCPFS3042A	Conduct annual functional testing of complex water-based fire suppression systems
CPCPFS3043A	Conduct functional water flow testing
CPCPFS3048A	Install fixed fire pumpsets
Competencies for Registr	ration – Casfitting work

Competencies for Registration – Gasfitting work

1	
CPCPCM2039A	Carry out interactive workplace communication
CPCPCM2040A	Read plans and calculate plumbing quantities
CPCPCM2041A	Work effectively in the plumbing and services sector
CPCPCM2043A	Carry out WHS requirements
CPCPCM2045A	Handle and store plumbing materials
CPCPCM2046A	Use plumbing hand and power tools
CPCPCM2047A	Carry out levelling
HLTFA211A	Provide basic emergency life support
CPCPCM2055A	Work safely on roofs
CPCPCM2054A	Carry out simple concreting and rendering
CPCPCM3021A	Flash penetrations through roofs and walls
CPCPCM2048A	Cut and join sheet metal
CPCPCM2050A	Mark out materials
CPCPCM2052A	Weld using oxy-acetylene equipment
CPCPCM2049A	Cut with Oxy-LPG / Acetylene equipment
CPCPCM3023A	Fabricate and install non-ferrous pressure piping
RIICCM210A	Install trench support
CPCPGS3046A	Install LPG systems in caravans, mobile homes and mobile workplaces
CPCPGS3047A	Install LPG systems in marine craft
CPCPGS3048A	Install gas pressure control equipment
CPCPGS3049A	Install Type A appliance flues

CPCPGS3050A	Install Type B gas appliance flues
CPCPGS3051A	Purge consumer piping
CPCPGS3052A	Maintain Type A gas appliances
CPCPGS3053A	Disconnect and reconnect Type A gas appliances
CPCPGS3054A	Calculate and install natural ventilation for Type A gas appliances
CPCPGS3056A	Install gas piping systems
CPCPGS3057A	Size consumer gas piping systems
CPCPGS3059A	Install LPG storage of aggregate storage capacity up to 500 litres
CPCPGS3060A	Install LPG storage of aggregate storage capacity exceeding 500 litres and less than 8 KL
CPCPGS3061A	Install and commission Type A gas appliances
Competencies for Registra	ntion – Irrigation (non-agricultural) work
CPCPCM2039A	Carry out interactive workplace communication
CPCPCM2040A	Read plans and calculate plumbing quantities
CPCPCM2041A	Work effectively in the plumbing and services sector
CPCPCM2043A	Carry out WHS requirements
CPCPCM2045A	Handle and store plumbing materials
CPCPCM2046A	Use plumbing hand and power tools
CPCPCM2047A	Carry out levelling
HLTFA211A	Provide basic emergency life support
CPCPCM2054A	Carry out simple concreting and rendering
CPCPCM2050A	Mark out materials
CPCPCM2052A	Weld using oxy-acetylene equipment
RIICCM210A	Install trench support
CPCPIG2021A	Design domestic urban irrigation systems
CPCPIG3021A	Set out, install and commission irrigation systems
CPCPIG3022A	Install and commission domestic irrigation pumps
CPCPWT3027A	Connect irrigation systems from drinking water supply

Competencies for Registration – Mechanical Services work

CPCPCM2049A

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CPCPCM2039A	Carry out interactive workplace communication
CPCPCM2040A	Read plans and calculate plumbing quantities
CPCPCM2041A	Work effectively in the plumbing and services sector
CPCPCM2043A	Carry out WHS requirements
CPCPCM2045A	Handle and store plumbing materials
CPCPCM2046A	Use plumbing hand and power tools
CPCPCM2047A	Carry out levelling
HLTFA211A	Provide basic emergency life support
CPCPCM2055A	Work safely on roofs
CPCPCM2048A	Cut and join sheet metal
CPCPCM2050A	Mark out materials
CPCPCM2052A	Weld using oxy-acetylene equipment

Cut with Oxy-LPG / Acetylene equipment

CPCPCM3023A	Fabricate and install non-ferrous pressure piping
CPCPCM2053A	Weld using manual metal arc welding equipment
CPCPCM3021A	Flash penetrations through roofs and walls
CPCPMS2021A	Assemble mechanical services components
CPCPMS3031A	Fabricate and install steel pressure piping
CPCPMS3032A	Select and fit insulation and sheathing
CPCPMS3033A	Install small bore heating systems
CPCPMS3034A	Install medical gas pipeline systems
CPCPMS3035A	Install and test ducting systems
CPCPMS3036A	Install air handling units
CPCPMS3038A	Install air conditioning control equipment
CPCPMS3039A	Maintain mechanical services equipment
CPCPMS3040A	Install and maintain evaporative air cooling systems
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

Competencies for Registration – Refrigerated Air-Conditioning work

UEENEEC025B	Participate in refrigeration and air conditioning work and competency development activities
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components
UEENEEE103A	Solve problems in ELV single path circuits
UEENEEE105A	Fix and secure electrotechnology equipment
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work
UEENEEJ102A	Prepare and connect refrigerant tubing and fittings
UEENEEJ103A	Establish the basic operating conditions of vapour compression systems
UEENEEJ104A	Establish the basic operating conditions of air conditioning systems
UEENEEJ106A	Install refrigerant pipe work, flow controls and accessories
UEENEEJ107A	Install air conditioning and refrigeration systems, major components and associated equipment
UEENEEJ108A	Recover, pressure test, evacuate, charge and leak test refrigerants
UEENEEJ109A	Verify functionality and compliance of refrigeration and air conditioning installations
UEENEEJ110A	Select refrigerant piping, accessories and associated controls
UEENEEJ111A	Diagnose and rectify faults in air conditioning and refrigeration systems and components
UEENEEJ113A	Commission air conditioning and refrigeration systems

UEENEEJ153A	Find and rectify faults in motors and associated controls in refrigeration and air conditioning systems
UEENEEJ170A	Diagnose and rectify faults in air conditioning and refrigeration control systems
UEENEEJ194A	Solve problems in low voltage refrigeration circuits
UEENEEK142A	Apply environmentally and sustainable procedures in the energy sector
UEENEEP012A	Disconnect / reconnect composite appliances connected to low voltage installation wiring
UEENEEP017A	Locate and rectify faults in low voltage composite appliances using set procedures
UEENEEP024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply
UEENEEP025A	Attach cords, cables and plugs to electrical equipment for connection to 1000 Va.c. or 1500 Vd.c. supply
UEENEEJ174A	Apply safety awareness and legal requirements for hydrocarbon refrigerants
UEENEEJ178A	Apply safety awareness and legal requirements for ammonia refrigerant
UEENEEJ184A	Apply safety awareness and legal requirements for carbon dioxide refrigerant

Competencies for Registration – Roofing (Stormwater) work CPCPCM2039A Carry out interactive workplace com

CPCPCM2039A	Carry out interactive workplace communication
CPCPCM2040A	Read plans and calculate plumbing quantities
CPCPCM2041A	Work effectively in the plumbing and services sector
CPCPCM2043A	Carry out WHS requirements
CPCPCM2045A	Handle and store plumbing materials
CPCPCM2046A	Use plumbing hand and power tools
CPCPCM2047A	Carry out levelling
HLTFA211A	Provide basic emergency life support
CPCPCM2055A	Work safely on roofs
CPCPCM3021A	Flash penetrations through roofs and walls
CPCPCM3022A	Weld polyethylene and polypropylene pipes using fusion method
CPCPCM2048A	Cut and join sheet metal
CPCPCM2050A	Mark out materials
CPCPCM2054A	Carry out simple concreting and rendering
CPCPRF2022A	Select and install roof sheeting and wall cladding
CPCPRF2023A	Collect and store roof water
CPCPRF3021A	Receive roofing materials
CPCPRF3022A	Fabricate and install roof drainage components
CPCPRF3023A	Fabricate and install external flashings
CPCPRF3024A	Install roof components
CPCPRF3025A	Install roof coverings to curved roof structures
CPCPRF3026A	Install composite roof systems
CPCCCM3001C	Operate elevated work platforms

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Competencies for Registration – Sanitary work

CPCPCM2039A Carry out interactive workplace communication
CPCPCM2040A Read plans and calculate plumbing quantities
CPCPCM2041A Work effectively in the plumbing and services sector

CPCPCM2043A Carry out WHS requirements

CPCPCM2045A Handle and store plumbing materials CPCPCM2046A Use plumbing hand and power tools

CPCPCM2047A Carry out levelling

HLTFA211A Provide basic emergency life support

CPCPCM2055A Work safely on roofs

CPCPCM2054A Carry out simple concreting and rendering CPCPCM3021A Flash penetrations through roofs and walls

CPCPCM2048A Cut and join sheet metal

CPCPCM3022A Weld polyethylene and polypropylene pipes using fusion

method

CPCPDR2021A Locate and clear blockages

CPCPSN3011B Plan the layout of a residential sanitary plumbing system

CPCPSN3022A Install discharge pipes

CPCPSN3023A Fabricate and install sanitary stacks
CPCPSN3024A Install and fit off sanitary fixtures
CPCPSN3025A Install pre-treatment facilities
CPCPSN3026A Install sewerage pumpsets

CPCPCM2052A Weld using oxy-acetylene equipment

Competencies for Registration – Type B gasfitting work

CPCPCM2039A Carry out interactive workplace communication
CPCPCM2040A Read plans and calculate plumbing quantities
CPCPCM2041A Work effectively in the plumbing and services sector

CPCPCM2043A Carry out WHS requirements

CPCPCM2045A Handle and store plumbing materials
CPCPCM2046A Use plumbing hand and power tools
HLTFA211A Provide basic emergency life support

CPCPGS4023B Install, commission and service Type B gas appliances

Competencies for Registration – Water supply work

CPCPCM2039A Carry out interactive workplace communication
CPCPCM2040A Read plans and calculate plumbing quantities
CPCPCM2041A Work effectively in the plumbing and services sector

CPCPCM2043A Carry out WHS requirements

CPCPCM2045A Handle and store plumbing materials CPCPCM2046A Use plumbing hand and power tools

CPCPCM2047A Carry out levelling

HLTFA211A Provide basic emergency life support

CPCPCM2055A Work safely on roofs

CPCPCM2054A Carry out simple concreting and rendering

CPCPCM3021A	Flash penetrations through roofs and walls
CPCPCM2050A	Mark out materials
CPCPCM2052A	Weld using oxy-acetylene equipment
CPCPCM3022A	Weld polyethylene and polypropylene pipes using fusion method
CPCPCM3023A	Fabricate and install non-ferrous pressure piping
CPCPFS3031A	Fabricate and install fire hydrant and hose reel systems
CPCPFS3037A	Install domestic and residential life safety sprinkler systems
CPCPIG2021A	Design domestic urban irrigation systems
CPCPIG3021A	Set out, install and commission irrigation systems
CPCPIG3022A	Install and commission domestic irrigation pumps
CPCPWT3020A	Connect and install storage tanks to a domestic water supply
CPCPWT3021A	Set out and install water services
CPCPWT3022A	Install and adjust water service controls and devices
CPCPWT3023A	Install and commission water heating systems
CPCPWT3024A	Install and maintain domestic water treatment equipment
CPCPWT3025A	Install water pumpsets
CPCPWT3026A	Fit off and commission heated and cold water services
CPCPWT3027A	Connect irrigation systems from drinking water supply
CPCPWT3028A	Install water service
CPCPWT3029A	Install water pipe systems
RIICCM210A	Install trench support
CPCPCM2049A	Cut with Oxy-LPG / Acetylene equipment

5.2 Licence

- 5.2.1 The qualifications and experience required for a licence under section 221M of the **Building Act 1993** to carry out a class of plumbing work are the successful completion of:
 - (a) the approved competency units for licensing in that class of plumbing work; and
 - (b) the Authority's examination of licensing competencies for that class of plumbing work.

Note: Section 221M(1)(a) of the **Building Act 1993** requires a person to be eligible for registration with respect to a class of plumbing work in order to be licensed to carry out that class of plumbing work.

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

Competencies for Licence – Drainage work

BSBSMB401A	Establish legal and risk management requirements of small business
CPCPCM4011A	Carry out work based risk control processes
CPCPCM4012A	Estimate and cost work
CPCPDR4011B	Design and size sanitary drainage systems
CPCPDR4012B	Design and size stormwater drainage systems
CPCPDR4013B	Design and size domestic treatment plant disposal systems

Competencies for Licence – Fire Protection work

BSBSMB401A	Establish legal and risk management requirements of	small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPFS4024A Design residential and domestic fire sprinkler systems CPCPFS4021A Commission domestic and residential fire suppression

sprinkler systems

Competencies for Licence – Gasfitting work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPGS4011C Design and size consumer gas installations

Competencies for Licence - Irrigation (non-agricultural) work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

Competencies for Licence – Mechanical Services work

BSBSMB401A Establish legal and risk management requirements of small

ousiness

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPMS4011B Design, size and lay out heating and cooling systems

Competencies for Licence - Refrigerated Air-Conditioning work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

Competencies for Licence - Roofing (Stormwater) work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPRF4011B Design and size roof drainage systems

Competencies for Licence – Sanitary work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPSN4011B Design and size sanitary plumbing systems

Competencies for Licence – Type B gasfitting work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPGS4023B Install, commission and service Type B gas appliances

Competencies for Licence – Water supply work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPWT4011B Design and size heated and cold water services and systems

6. Approved competency units for classes of specialised plumbing work - commencing on 18 November 2018

Schedule 4, Part 2 – Qualifications and experience required in respect of classes of specialised plumbing work

6.1 Registration

- 6.1.1 The qualifications and experience required for registration under section 221OA of the **Building Act 1993** to carry out a class of specialised plumbing work are successful completion of:
 - the approved competency units for registration in the class of specialised plumbing work; and
 - (b) the Authority's examination of registration competencies for that class of specialised plumbing work.
- 6.1.2 The approved competency units for registration for each class of specialised plumbing work are:

Competencies for Registration – Backflow prevention work

CPCPWT4022A Commission and maintain backflow prevention devices

Competencies for Registration - Type A appliance servicing work

CPCPGS4022A Service Type A gas appliances

6.2 Licence

- 6.2.1 The qualifications and experience required for a licence under section 221N of the **Building Act 1993** to carry out a class of specialised plumbing work are the successful completion of:
 - (a) the approved competency units for licensing in that class of specialised plumbing work; and
 - (b) the Authority's examination of licensing competencies for that class of specialised plumbing work.
- 6.2.2 The approved competency units for a licence for each class of specialised plumbing work are:

Competencies for Licence – Backflow prevention work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPWT4022A Commission and maintain backflow prevention devices

Competencies for Licence – Type A appliance conversion work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

Competencies for Licence – Type A appliance servicing work

BSBSMB401A Establish legal and risk management requirements of small

usines

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work
CPCPGS4022A Service Type A gas appliances

Competencies for Licence - Type B gasfitting advanced work

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

7. Approved competency units for class of specialised plumbing work – Thermostatic mixing valve work - commencing on 18 November 2019

Schedule 4, Part 2 – Qualifications and experience required in respect of classes of specialised plumbing work

7.1 Registration

- 7.1.1 The qualifications and experience required for registration under section 221OA of the **Building Act 1993** to carry out a class of specialised plumbing work are successful completion of:
 - (a) the approved competency units for registration in the class of specialised plumbing work; and
 - (b) the Authority's examination of registration competencies for that class of specialised plumbing work.
- 7.1.2 The approved competency unit for registration in the specialised plumbing class of Thermostatic mixing valve work is:

CPCPWT4023A Commission and maintain hot and heated water temperature control devices.

7.2 Licence

- 7.2.1 The qualifications and experience required for a licence under section 221N of the **Building Act 1993** to carry out a class of specialised plumbing work are the successful completion of:
 - (a) the approved competency units for licensing in that class of specialised plumbing work; and
 - (b) the Authority's examination of licensing competencies for that class of specialised plumbing work.
- 7.2.2 The approved competency units for a licence in the specialised plumbing class of Thermostatic mixing valve work are:

BSBSMB401A Establish legal and risk management requirements of small

business

CPCPCM4011A Carry out work based risk control processes

CPCPCM4012A Estimate and cost work

CPCPWT4023A Commission and maintain hot and heated water temperature

control devices

SUE EDDY Chief Executive Officer

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