

# Unit of Competency CPCPWT4022

## Commission and maintain backflow prevention devices

### Application

This unit specifies the skills and knowledge required to test, commission and maintain backflow prevention devices in water services.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

### Prerequisite Unit

CPCPCM2043 Carry out WHS requirements

CPCPWT3027 Install backflow prevention devices

### Elements and Performance Criteria

1. Identify testing, commissioning and maintenance requirements.	1.1	Access, read and determine backflow prevention device testing, commissioning and maintenance requirements from job specifications, relevant Australian Standards, codes, manufacturers' instructions and jurisdictional requirements.
	1.2	Obtain, interpret and follow workplace, work health and safety (WHS) and environmental requirements.
2. Prepare for work.	2.1	Create a materials list and collect materials.
	2.2	Select appropriate tools and equipment including personal protective equipment (PPE).
3. Commission and maintain devices.	3.1	Commission and maintain devices in compliance with manufacturers' instructions, relevant Australian Standards and jurisdictional requirements.
	3.2	Complete documentation according to regulatory requirements.
4. Clean up.	4.1	Clear the work area and dispose of, reuse or recycle materials in accordance with state or territory legislation and workplace requirements.
	4.2	Clean tools and equipment, check for serviceability and report any damage, and store and secure.

### Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

### Unit Mapping Information

Supersedes and is equivalent to CPCPWT4022A Commission and maintain backflow prevention devices.

## Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

# Assessment Requirements for CPCPWT4022

## Commission and maintain backflow prevention devices

### Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- testing and commissioning the following backflow prevention devices:
  - three different double check valves
  - one single (testable) check valve
  - two different registered air gaps (including different orifice sizes and inlet pressures)
  - three different reduced pressure zone devices
- removing and maintaining:
  - one double check valve
  - one reduced pressure zone device.

### Knowledge Evidence

To be competent in this unit, a person must demonstrate knowledge of:

- basic hydraulics and mechanics relevant to backflow prevention devices in water services
- process of testing, commissioning and maintaining backflow prevention devices
- properties of water, including pressure and flow rates
- types of backflow prevention devices
- electrical safety
- how to access relevant information, including codes and standards
- tools, materials and equipment used to test, commission and maintain backflow prevention devices in water services
- work health and safety (WHS) requirements for testing, commissioning and maintaining backflow prevention devices in water services.

### Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

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