

# Unit of Competency CPCPWT3027

## Install backflow prevention devices

### Application

This unit specifies the skills and knowledge required to install backflow prevention devices. It does not include the commissioning or testing of backflow prevention devices or arrangements.

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

### Prerequisite Unit

CPCPCM2043A Carry out WHS requirements

CPCPCM3023 Fabricate and install non-ferrous pressure piping

### Elements and Performance Criteria

1. Identify installation requirements	<p>1.1 Access, read and determine backflow prevention device installation requirements from relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p> <p>1.2 Identify and apply workplace, work health and safety (WHS) and environmental requirements.</p>
2 Prepare for work.	<p>2.1 Create a materials list and collect materials.</p> <p>2.3 Select and check serviceability of appropriate tools and equipment including personal protective equipment (PPE).</p>
3. Connect and test system.	<p>3.1 Set out and install backflow prevention device according to relevant from relevant job plans, specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p> <p>3.2 Test installed pipework according to relevant job specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p>
4. Clean up.	<p>4.1 Clear the work area and dispose of any materials in accordance with state and territory legislation and workplace procedures.</p> <p>4.2 Clean, check for serviceability and store and secure plant, equipment and tools reporting any damage to appropriate personnel.</p>

### 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 CPCPWT3027A Connect irrigation systems from drinking water supply.

### Links

Companion Volume Implementation Guide:

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

# Assessment requirements for CPCPWT3027 Install backflow prevention devices

## Performance Evidence

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

- installing three different backflow prevention devices one being low hazard rating, one being a medium hazard rating, and one being a high hazard rating from the list below, including pipework to inlet of the backflow device and ancillary equipment.

Low hazard device defined as:

- o dual-check valve with atmospheric port
- o dual-check valve
- o dual-check valve with intermediate vent
- o atmospheric vacuum breaker
- o single check valve (testable)
- o single check detector assembly (testable).

Medium hazard testable device defined as:

- o double-check valve assembly
- o double-check detector assembly
- o pressure type vacuum breaker.

High hazard testable device defined as:

- o registered break tank
- o registered air gap
- o reduced pressure zone device
- o reduced pressure detector assembly.

## Knowledge Evidence

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

- pressure and flow rates
- types of backflow prevention devices such as:
  - o testable
  - o non-testable
- backflow hazard ratings
- suitability of backflow prevention devices
- types of irrigation systems
- how to access relevant information, including codes and standards

- tools, materials and equipment used to install backflow prevention devices
- work health and safety (WHS) requirements to install backflow prevention devices.

## 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.

## Links

Companion Volume Implementation Guide:

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