



**Australian Government**

# **CPCPWT4023 Commission and maintain hot and heated water temperature control devices**

**Release: 1**

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## **Modification History**

- Release 1      This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCWPT4023A Commission and maintain hot and heated water temperature control devices. Updated to meet the Standards for Training Packages 2012.

## **Application**

This unit specifies the skills and knowledge required to test, commission and maintain hot and/or heated water temperature control devices, including thermostatic mixing valves in water services.

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

## **Pre-requisite Unit**

CPCPCM2043 Carry out WHS requirements

CPCPWT3022 Install and commission water heating systems and adjust controls and devices

## **Unit Sector**

Plumbing and Fire Services

## **Elements and Performance Criteria**

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- |                                                        |                                                                                                                                                                                                              |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Identify commissioning and maintenance requirements. | 1.1 Access, read and determine device commissioning and maintenance requirements from job specifications, relevant Australian Standards, codes, manufacturers' instructions and jurisdictional requirements. |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- |                                   |     |                                                                                                                                               |
|-----------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | 1.2 | Identify and apply 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 device. | 3.1 | Commission and maintain device 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 CPCWPT4023A Commission and maintain hot and heated water temperature control devices.

## Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

# **Assessment Requirements for CPCPWT4023 Commission and maintain hot and heated water temperature control devices**

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## **Performance Evidence**

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

- testing and commissioning three different types of thermostatic mixing valves in accordance with manufacturers' instructions and relevant Australian Standards
- maintaining three different types of thermostatic mixing valves in accordance with manufacturers' instructions and relevant Australian Standards.

## **Knowledge Evidence**

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

- bacteria in water and its effect on health
- characteristics and applications of different types of hot and/or heated water temperature control valves and devices
- process of commissioning hot and/or heated water temperature control devices
- properties of water, including pressure and flow rates
- how to access relevant information, including codes and standards
- tools, materials and equipment used to test, commission and maintain hot and/or heated water temperature control devices, including thermostatic mixing valves in water services
- work health and safety (WHS) requirements for testing, commissioning and maintaining hot and/or heated water temperature control devices, including thermostatic mixing valves 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.

## Links

Companion volumes to this training package are available at the VETNet website -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>