

Unit of Competency CPCPWT3029

Install water pipe systems

Application

This unit specifies the skills and knowledge required to install and test water pipes larger than DN65.

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

CPCPCM3023 Fabricate and install non-ferrous pressure piping

Elements and Performance Criteria

1. Identify installation requirements.	1.1 Access, read and determine large water service installation 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 and check serviceability of appropriate tools and equipment including personal protective equipment (PPE).
3. Install large water service.	3.1 Set out and install large water service.
	3.2 Test installation pipework according to standards and manufacturers' instructions.
	3.3 Complete documentation according to relevant 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 CPCPWT3029A Install water pipe systems.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPWT3029 Install water pipe systems

Performance Evidence

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

- installing and testing a large water service using a length of mains pressure pipe no less than four metres at a minimum of DN65, including:
 - o two materials
 - o a change of direction or a tee junction
 - o one isolation valve.

Knowledge Evidence

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

- types of water mains
- methods of connection to water main or large water service
- installation of large water services
- corrosion control
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install and test water pipe systems
- work health and safety (WHS) requirements for installing and testing water pipe systems.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed 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

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