

Unit of Competency CPCPWT3025

Install water pumpsets

Application

This unit specifies the skills and knowledge required to install, test and commission water pumpsets.

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

Elements and Performance Criteria

1. Identify installation requirements.	1.1	Access, read and determine water pumpset installation 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 and check serviceability of appropriate tools and equipment including personal protective equipment (PPE).
	2.3	Prepare work area to support the efficient installation of water pumpset.
3. Install water pumpset.	3.1	Set out and install pumpset to comply with relevant Australian Standards, job specifications, manufacturers' instructions and jurisdictional requirements.
	3.2	Test and commission installation.
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 CPCPWT3025A Install water pumpsets.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPWT3025 Install water pumpsets

Performance Evidence

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

- planning layout, installing, testing and commissioning a centrifugal pump.

Knowledge Evidence

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

- atmospheric pressure
- fixing techniques and pump connections
- process for installing and application of water pumpsets:
 - o circulating
 - o pressure
 - o submersible
- properties of water, including pressure, flow rate and velocity
- basic pump sizing
- characteristics and use of pump controls:
 - o automatic controls which may float, level or flow switches
 - o manual
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install water pumpsets
- work health and safety (PPE) requirements for installing water pumpsets.

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.

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