

Unit of Competency CPCPDR2025

Install stormwater and sub-soil drainage systems and drain work site

Application

This unit specifies the skills and knowledge required to install stormwater and sub-soil drainage systems to an approved point of discharge.

It includes the operation of pumps to temporarily or permanently drain a work site of unscreened roof water, sub-soil water and surface water.

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. Plan the work.	<p>1.1 Access, read and determine stormwater and drainage requirements from relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</p> <p>1.2 Identify and apply workplace policies and procedures, 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>2.2 Select and check serviceability of appropriate tools and equipment, including personal protective equipment (PPE).</p>
3. Install storm water and sub-soil drainage.	<p>3.1 Locate and set out position of stormwater and drainage and determine levels and gradients from set points.</p> <p>3.2 Excavate trench to specified depth and width and grade using manual or mechanical means.</p> <p>3.3 Measure, cut and install pipework to align with connection points.</p> <p>3.4 Conduct a pressure test on the stormwater installation.</p> <p>3.5 Fit covers and inspection openings.</p>
4. Drain worksite.	<p>4.1 Position and construct sediment controls to meet environmental requirements.</p> <p>4.2 Install submersible pump in a sump or well with inlet and discharge point to the specified location and levels.</p>
5. Clean up.	<p>5.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.</p> <p>5.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.</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 non-equivalent to CPCPDR2024A Install stormwater and sub-soil drainage systems, and CPCPDR2025A Drain work site.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPDR2025

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Performance Evidence

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

- installing a stormwater and a sub-soil drainage system, including:
 - connecting stormwater from two downpipes to an approved point of discharge with a minimum length of 5 metres
 - connecting sub-soil drainage to a stormwater pit with a minimum length of 5 metres
- draining a work site, including:
 - using a submersible pump to drain water with a depth of at least 500 mm from a pit, trench or excavation to an approved point of discharge.

Knowledge Evidence

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

- terminology relating to the installation of stormwater and subsoil drainage systems and to draining a work site
- processes, procedures and techniques for installing stormwater drainage systems
- approved points of discharge
- retention and detention systems and charged systems
- excavation techniques and shoring methods and systems
- site isolation and traffic control responsibilities and authorities
- stormwater pits
- how to locate underground services
- functional and operational features of plant, equipment, and submersible pumps
- how to access relevant information, relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements
- tools, materials and equipment used for the installation of stormwater and drainage systems
- work health and safety (WHS) requirements for the installation of stormwater and drainage systems.

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

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