



Australian Government

CPCPDR4012 Design and size stormwater drainage systems

Release: 2

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Modification History

Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.

Element 2 title corrected. Performance Evidence formatted for clarity.

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCPDR4012B Design and size stormwater drainage systems. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to design, size and document the layout of surface and sub-soil stormwater drainage systems up to legal points of discharge to a residential dwelling (Class 1a), a commercial Class 6 building, and a unit complex comprising at least eight (Class 1a) dwellings.

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

Pre-requisite Unit

Nil.

Unit Sector

Plumbing

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 system requirements.

1.1 Access, read and determine design requirements from plans, specifications, relevant manufacturers requirements, Australian Standards and jurisdictional requirements.

1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental

requirements.

- 1.3 Identify stormwater catchment and flow requirements.
 - 1.4 Select stormwater pipe size to conform to regulatory authorities and main or street kerb, including discharge flow and levels to verify grades and cover.
 - 1.5 Determine stormwater requirements for retention pit, silt and flotation arrestor pit, rainwater tank and stormwater overflow discharge locations to suit job requirements.
- 2 Design system layout.
- 2.1 Develop and size system layout in accordance with manufacturer's requirements, Australian standards and jurisdictional requirements.
 - 2.2 Use the proposed design to identify and specify optimal materials required.
 - 2.3 Produce final system layout plans to relevant drawing design standards.

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 CPCPDR4012B Design and size stormwater drainage systems.

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>