



Australian Government

Assessment Requirements for CPCPDR4013 Design and size domestic treatment plant disposal systems

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 CPCPDR4013B Design and size domestic treatment plant disposal systems. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- designing, sizing and documenting the layout of a treatment plant disposal system for a residential design that comprises a dwelling (Class 1a), including details of:
 - treatment plant
 - disposal field
 - relationship of the above to any buildings, property boundaries, easements and other structures.

Knowledge Evidence

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

- design concepts and performance measures for domestic treatment plant disposal systems
- principles of the assessment of land capability for application of effluent
- principles, techniques and characteristics of effluent treatment and disposal, including the purpose of anaerobic bacteria
- properties and characteristics of landscape application areas
- site characteristics that may influence planning:
 - contour, reduced and invert levels
 - type of system chosen
 - soil category
 - design loading rates (DLR)
 - long term acceptance rate (LTAR)
 - number of people the system is to cater for
- identifying scope of work by waste processing method:
 - absorption by absorption trenches or transpiration beds
 - disposal by absorption, spray or recycling

- anaerobic or aerobic action
- drawing instruments and sketching techniques, including the use of conventional symbols
- use of computers for documentation
- computer-aided design (CAD) software
- how to access relevant information, including codes and standards
- tools, materials and equipment used to design, size and document the layout of domestic treatment plant disposal systems
- work health and safety (WHS) requirements for designing, sizing and documenting the layout of domestic treatment plant disposal 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

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>