



Australian Government

Assessment Requirements for CPCPRF4011 Design and size roof drainage 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 CPCPRF4011B Design and size roof drainage systems. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- designing, sizing and documenting the layout of a roof drainage system including overflows for two varied roof types:
 - one incorporating eaves gutter for a residential (Class 1) building, and
 - one for a commercial (Class 6) building incorporating a box gutter and sumps or rain heads.

Knowledge Evidence

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

- relevant information sources for designing and sizing roof drainage systems
- processes for calculating catchment areas and design flows
- quantity and size of gutters, sumps, rain heads and downpipes determined according to relevant Australian Standards, plans and specifications
- environmental requirements and sustainability principles including efficient design principles
- drawing instruments and sketching techniques, including the use of conventional symbols
- use of computers and computer-aided design (CAD) software for documentation
- how to access relevant information, including codes and standards
- tools, materials and equipment used to design, size and document the layout of roof drainage systems
- work health and safety (WHS) requirements for designing, sizing and documenting the layout of roof 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

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>