



Australian Government

CPCSFS5007 Create detailed designs for hydrant and hose reel systems

Release: 1

CPCSFS5007 Create detailed designs for hydrant and hose reel systems

Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCSFS5007A Create detailed designs for hydrant and hose reel systems. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to obtain, process and set up drawings for the detailed design of hydrant and hose reel systems for low to high-rise buildings over 25 metres and 45 metres in height.

This unit of competency supports the role of fire systems designers and hydraulic design consultants who manage their own work and take responsibility for assessing and selecting component requirements, setting out the locations of components and creating final notated drawings for hydrant and hose reel systems.

The role may involve interaction with fire engineers, architects, contractors, suppliers, clients and relevant planning authorities and requires a sound understanding of applicable legislation, standards and codes, including the National Construction Code (NCC).

This unit does not apply to fire systems for special hazard locations.

Licensing, legislative, regulatory or certification requirements may apply to this unit.

Pre-requisite Unit

Nil.

Unit Sector

Plumbing and Fire Services

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- | | | | |
|---|---------------------|-----|---|
| 1 | Set up fire systems | 1.1 | Access and review project drawings and documentation. |
|---|---------------------|-----|---|

- | | | |
|---|-----|---|
| design drawings. | 1.2 | Clean drawings to leave minimal essential information. |
| | 1.3 | Import layers showing designs of other services into clean architectural or structural drawings. |
| | 1.4 | Add details from drawings of the floor level above, if these affect the design. |
| | 1.5 | Process the detailed design drawings in accordance with workplace procedures. |
|
2 Lay out the hydrant and hose reel design. | 2.1 | Conduct a site visit if possible, to confirm dimensions and assess installation risks and constraints. |
| | 2.2 | Determine the exact location of hydrants and hose reels and notate on the drawing according to relevant codes and standards. |
| | 2.3 | Determine the most efficient and workable layout and location of hydrant and hose reel system components and notate on the drawing. |
| | 2.4 | Calculate and check dimensions and notate on the drawing. |
|
3 Submit drawings for approval and finalise design process. | 3.1 | Submit fire hydrant and hose reel system design drawings to relevant persons within the scheduled timeframe. |
| | 3.2 | Make or negotiate amendments to design drawings as required. |
| | 3.3 | Process and distribute final approved design drawings according to project and workplace requirements. |

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 CPCSFS5007A Create detailed designs for hydrant and hose reel 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>