



Australian Government

Assessment Requirements for CPCPFS3030

Design fire sprinkler systems using pre-calculated charts and tables

Release: 3

Assessment Requirements for CPCPFS3030 Design fire sprinkler systems using pre-calculated charts and tables

Modification History

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| Release 3 | This version first released with CPC Construction, Plumbing and Services Training Package Release 6.5.

Amended Performance Criteria and Knowledge Evidence. |
| Release 2 | This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.

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 CPCPFS3030A Design pre-calculated fire sprinkler 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 a fire sprinkler system using plans and specifications provided for an ordinary III hazard classification building, including:
 - at least 25 sprinkler heads and two branches
 - spacing and location of sprinkler heads
 - specifications for the size and layout of all pipework
 - layout drawings, fabrication sheets and materials lists.

Knowledge Evidence

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

- legal responsibilities of people related to designing fire sprinkler systems
- legislation, regulations, standards and codes relating to designing a fire sprinkler system
- general fire protection systems and design terminology and symbols
- structural systems, building materials and building services of buildings and structures that require fire sprinkler systems.
- characteristics, application and limitations of approved materials and components of fire sprinkler systems

- identifying and explaining the difference between deemed to satisfy installations and performance-based solutions
- functional and operational features of tools and equipment used to design fire sprinkler systems
- processes, procedures and techniques of:
 - applying pre-calculated charts and tables in the design of fire sprinkler systems
 - hydraulic calculations associated with pre-calculated design
- properties of water, including pressure and flow rates.

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>