



Australian Government

Assessment Requirements for CPCPFS4024 Design residential fire sprinkler systems

Release: 2

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Modification History

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

Changes to Pre-requisite unit. |
| Release 1 | This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCPFS4024A Design residential and domestic 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:

- using hydraulic calculations to design a fire sprinkler system for a residential complex containing a minimum of a communal catering and living area and multiple residential quarters (or equivalent) and also a fire sprinkler system for a domestic residence containing a minimum of two rooms.

In doing so the person must:

- correctly interpret plans and specifications to complete work to the specified standard within accepted timeframes
- comply with appropriate legislation, organisational processes and regulatory requirements.

Knowledge Evidence

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

- calculating and measuring techniques and their application:
 - SI system of measurements
 - calculating material requirements
- components and materials of fire suppression sprinkler systems and their operating characteristics:
 - actuating devices
 - alarms
 - control valve assemblies
 - piping

- sprinkler heads
- process and design techniques, materials and technology:
 - calculators
 - design data
 - design tables
 - drawing and drafting equipment
 - reference materials
 - computers running appropriate computer-aided design (CAD) software
 - drafting materials
 - plans
- job safety analysis (JSA) and safe work method statements (SWMSs)
- accessing and using information:
 - charts and hand drawings
 - instructions issued by authorised organisational or external personnel
 - job drawings
 - manufacturer specifications and instructions
 - organisation work specifications and requirements
 - plans and sketches signage
 - verbal, written and graphical instructions
 - work bulletins
 - work schedules, plans and specifications
- regulatory and legislative requirements
- properties of water including pressure and flow rates
- work health and safety (WHS) related to designing residential and domestic fire sprinkler systems
- environmental requirements and sustainability principles
- quality assurance requirements.

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>