



Australian Government

Assessment Requirements for CPCPFS4021 Commission domestic and residential fire suppression sprinkler 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 CPCPFS4021A Commission domestic and residential fire suppression sprinkler systems. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To determine competency in this unit a candidate must meet the performance criteria for this unit by:

- commissioning and testing a fire suppression sprinkler system for a domestic and residential fire suppression sprinkler systems in buildings up to four storeys in height containing communal catering and residential quarters and a fire suppression sprinkler system for a domestic residence containing a minimum of two rooms
- correctly interpreting plans and specifications to complete work to the specified standard within accepted timeframes
- complying with appropriate legislation, organisational processes and regulatory requirements.

Knowledge Evidence

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

- components and materials of fire suppression sprinkler systems including:
 - actuating devices
 - alarms
 - control valve assemblies
 - piping
 - sprinkler heads
 - unplasticised polyvinyl chloride (uPVC), steel or copper pipes and other approved materials
- job safety analysis (JSA) and safe work method statements (SWMS)
- National Fire Protection Association (NFPA) and Factory Mutual performance-based codes of practice
- pressure test systems and procedures

- process of installing, testing and commissioning domestic and residential fire suppression sprinkler systems
- processes for accessing information and for calculating material requirements
- properties of water, including pressure and flow rates
- SI system of measurements
- safe work practices relating to testing and commissioning domestic and residential fire suppression sprinkler systems including:
 - hazard control
 - personal protective equipment (PPE) prescribed under legislation, regulations and workplace policies and practices
 - handling of materials
 - personal protective clothing and equipment prescribed under legislation, regulations and workplace policies and practices
- environmental requirements including:
 - water quality management
 - clean-up protection
 - stormwater protection
 - waste management
- quality assurance information including:
 - Australian standards
 - Environment Protection Authority (EPA)
 - internal company quality assurance policy and risk management strategy
 - International Standards Organisation (ISO)
 - site safety plan
 - workplace operations and procedures
- tools and equipment including:
 - hand and power tools
 - test equipment
- sustainability principles and concepts including efficient:
 - water usage
 - harvesting
 - disposal
- planning and site information including:
 - charts and hand drawings
 - instructions issued by authorised organisational or external personnel
 - job drawings and specifications
 - manufacturer specifications and instructions
 - safety data sheets (SDS)
 - organisation work specifications and requirements
 - work schedules, plans and specifications
 - spoken, written and graphical instructions

- regulatory and legislative requirements, particularly those pertaining to:
 - building codes
 - work health and safety (WHS) and environmental requirements
 - plumbing regulations
 - relevant Australian standards, including AS 2118.1 Automatic fire sprinkler systems
 - signage
 - local authorities' 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>