



**Australian Government**

**CPCPFS3042 Conduct annual routine  
service of complex water-based  
fire-suppression systems**

**Release: 2**

# CPCPFS3042 Conduct annual routine service of complex water-based fire-suppression systems

## Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.  
Changes to Elements and Performance Criteria 1.3, 2.1, and 2.2.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.  
Supersedes and is equivalent to CPCPFS3042A Conduct annual functional testing of complex water-based fire-suppression systems. Updated to meet the Standards for Training Packages 2012.

## Application

This unit specifies the skills and knowledge required to conduct annual routine service procedures to verify that complex water-based fire-suppression system equipment functions as designed for a Class 2-9 building greater than 5000 square metres.

It includes isolating systems to visually inspect and identify non-compliance defects and resetting systems.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

## Pre-requisite Unit

CPCPCM2043 Carry out WHS requirements

## Unit Sector

Plumbing

## Elements and Performance Criteria

Elements describe the essential outcomes.

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

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| 1 Plan the work. | 1.1 Determine and apply annual routine service operations requirements from AS 1851 Routine service of fire protection systems and equipment (section 1) and appropriate legislative and industry codes. |
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- 1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.
  - 1.3 Arrange and confirm appropriate time for conducting the annual routine service with the site contact.
  - 1.4 Select and check tools, equipment and personal protective equipment (PPE) for serviceability and report any faults.
- 2 Conduct inspections and record results.
- 2.1 Confirm attendance on site with site contact and follow workplace and organisational procedures for signing in.
  - 2.2 Follow site procedures for notifying occupants and/or staff of annual routine service.
  - 2.3 Isolate control and indicating equipment (CIE), system interfaces and other plant according to site requirements.
  - 2.4 Apply appropriate workplace procedures and risk control measures when inspecting water-based fire-suppression systems.
  - 2.5 Identify key control valves and determine their functions regarding installation drawings to conduct routine inspection and tests.
  - 2.6 Identify all defects and non-conformances and report according to AS 1851 Routine service of fire protection systems and equipment requirements.
  - 2.7 Perform and record visual inspections on complex components.
  - 2.8 Perform visual installation and design survey inspections.
  - 2.9 Prepare installation and design survey report.
- 3 Conduct full function test on water-based components only.
- 3.1 Confirm appropriate time to conduct full function test with client and discuss the process and shutdowns likely to occur during test.
  - 3.2 Confirm coordination of other trades and technicians

- required to conduct full function test.
- 3.3 Determine from system interface diagram the interfaced system required to operate.
  - 3.4 Isolate alarm signalling equipment.
  - 3.5 Perform annual testing according to AS 1851 Routine service of fire protection systems and equipment requirements.
  - 3.6 Conduct test and confirm operation of all required water-based fire protection system according to the system interface diagram.
  - 3.7 Reinstate systems.
  - 3.8 Identify and document all defects and non-conformances and report according to AS 1851 Routine service of fire protection systems and equipment requirements.
  - 3.9 Prepare and forward to persons for action.
- 4 Clean up.
- 4.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.
  - 4.2 Clean tools and equipment, check for serviceability reporting any damage, store and secure according to workplace procedures.

## 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 CPCPFS3042A Conduct annual functional testing of complex water-based fire-suppression 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>

