



Australian Government

CPCPFS3043 Conduct functional water flow testing

Release: 2

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Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Typographical error corrected in Element 1.6.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCPFS3043A Conduct functional water flow testing. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to complete functional water flow proving and load tests on water-based fire-suppression systems.

It includes identifying compliance requirements, isolating relevant plant and system interfaces, conducting functional water flow testing, resetting the system and completing mandatory reporting requirements.

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 Identify, confirm and apply water flow testing requirements from relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements. |
| | 1.2 Identify and apply workplace policies and procedures, |

- work health and safety (WHS) and environmental requirements.
- 1.3 Check location and equipment against legislative and industry requirements and take action according to organisational requirements to ensure compliance.
 - 1.4 Select and check serviceability of tools, equipment and personal protective equipment (PPE).
 - 1.5 Identify and isolate relevant plant and system interfaces.
 - 1.6 Confirm that wastewater from flow test will not cause any damage or issues to site or surrounding area.
 - 1.7 Identify appropriate test points and required water flow test equipment.
 - 1.8 Locate and identify types of water supply isolating valves.
- 2 Prepare for work.
- 2.1 Apply appropriate workplace procedures and risk control measures.
 - 2.2 Depressurise flow test point pipework.
 - 2.3 Attach water flow test equipment according to manufacturer instructions and organisational requirements.
 - 2.4 Install gauges of known accuracy.
 - 2.5 Determine system water pressure and flow requirements from block plan.
 - 2.6 Select and chart at least four points to take readings when flow testing according to manufacturer's charts for the flow test equipment.
 - 2.7 Operate valves to isolate water supplies.
 - 2.8 Document all information from site block plan.
- 3 Conduct functional water flow proving and load test, and
- 3.1 Perform tests on each water supply to verify that systems function as intended, stopping at a minimum of four points and recording installation, town's main and/or

- record results.
- pump suction and discharge pressures.
- 3.2 Record pump driver RPM at the drive shaft, temperature of driver and oil pressure.
 - 3.3 Monitor cooling system closely while conducting flow test.
 - 3.4 Record temperature of pump room when conducting test.
 - 3.5 Compare test results with legislative and industry requirements.
 - 3.6 Identify all defects and nonconformances and report according to AS 1851 Routine service of fire protection systems and equipment.
 - 3.7 Document and graph results and forward report to relevant persons for action.
 - 3.8 Reinstate system according to organisational requirements.
- 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 and report any damage, and 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 CPCPFS3043A Conduct functional water flow testing.

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>