

Unit of Competency CPCPFS3038

Test and maintain fire hydrant and hose reel installations

Application

This unit of competency specifies the skills and knowledge required to conduct routine service, maintain and repair fire hydrant and hose reel installations, in accordance with AS 1851 Routine inspection of fire protection systems and equipment. It excludes fire pump performance and booster connection flow testing. It applies to people who work on new or existing structures in commercial and residential settings.

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

Prerequisite Unit

CPCPCM2043 Carry out WHS requirements

Elements and Performance Criteria

1. Plan the work.	<ul style="list-style-type: none">1.1 Access, read and apply fire hydrant and hose reel requirements relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements.1.2 Identify and apply organisational work health and safety (WHS), including sign in, environmental requirements.1.3 Identify and calculate materials required to complete the task.1.4 Determine job priorities and sequence job tasks in consultation with others on site.
2. Prepare for work.	<ul style="list-style-type: none">2.1 Identify potential hazards and determine and implement control measures and personal protective equipment (PPE) requirements.2.2 Select and check serviceability of appropriate tools, equipment and PPE.2.3 Receive and check materials against the docket and order form for correct product, compliance with standards and acceptable condition and action discrepancies.2.4 Apply AS 1851 Routine service of fire protection systems and equipment (Section 1) and routine service requirements for fire hydrant and hose reel installation.2.5 Confirm correct location of fire protection systems and equipment in accordance with AS 2419 Fire hydrant installations system design, installation and commissioning.
3. Test, repair and replace faulty components and perform systems checks.	<ul style="list-style-type: none">3.1 Isolate system interfaces.3.2 Carry out routine service up to five yearly frequency and maintenance tasks as detailed in AS 1851 Routine service of fire protection systems and equipment.3.3 Identify faulty items or components and choose appropriate service procedure.3.4 Remove faulty items or components, using appropriate tools and equipment and rectify.3.5 Complete documentation according to workplace procedures and submit within

	specified timeframes.
4. Clean up.	<p>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.</p> <p>4.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.</p>

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 CPCPFS3038A Test and maintain fire hydrant and hose reel installations.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCPFS3038

Test and maintain fire hydrant and hose reel installations

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- conducting routine testing and maintenance up to five yearly frequency, excluding fire pump performance and booster connection flow testing on two different fire hydrants and hose reel installations
- diagnosing a critical defect and non-conformance and:
 - report as per AS 1851 Routine service of fire protection systems and equipment requirement
 - repair each defect and non-conformance
 - conduct testing to ensure rectification is effective
 - reinstate installations and complete a service report
- replacing all serviceable components as per preventative maintenance requirements of AS 1851 Routine service of fire protection systems and equipment on:
 - three hydrant valves
 - two hose reels
- replacing one faulty hose reel drum
- setting a pressure reducing valve according to relevant specifications
- performing system interfaces isolation of fire detection control and indicating equipment (FDCIE) and fire pumpsets
- confirming correct location of hydrants, attack and feed hydrant and hose reels in accordance with AS 2419 Fire hydrant installations system design, installation and commissioning from a site or plan of 2000 square metres.

Knowledge Evidence

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

- responsibilities relating to quality requirements for testing and maintaining fire hydrants and hose reel installations:
 - documentation and information systems and processes
 - policies and guidelines relating to work roles and responsibilities
 - workplace reporting
- operational knowledge of hydrant and hose reel systems
- purpose, function and maintenance requirements of the following components in hydrant and hose reel systems:
 - hydrant valves
 - hose reels
 - check valves
 - booster assemblies
 - gate valves

- o gauges
- o pipework
- o hydrant cabinets
- o booster cabinets
- o hose reel cabinets
- o hydrant and hose reel signage
- o isolation valves
- o pipe supports
- o anti-tamper switches
- o pump start initiating devices
- o block plans
- processes, procedures and techniques of:
 - o testing and maintaining fire hydrant and hose reel installations
 - o system interfaces with hydrants and hose reels
 - o water flow testing of hydrants and hose reels
- how to access relevant information, including job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements.to test and maintain fire hydrant and hose reel installations
- tools, materials and equipment used to test and maintain fire hydrant and hose reel installations
- work health and safety (WHS) requirements for performing tests and conducting fire hydrant and hose reel installations.

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 Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>