



Australian Government

Assessment Requirements for CPPFES2037

Inspect and test fire hydrant systems

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 13.0.

Supersedes and is equivalent to CPPFES2037A Inspect and test fire hydrant systems. Unit updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by completing the six-monthly and yearly inspection and test procedures on 15 fire hydrant systems installed across ten different sites according to the requirements of the current Australian Standard for the routine service of fire protection systems and equipment, excluding:

- inspection and testing functions associated with pressure-reducing equipment in high rise buildings, fire pumpset systems or water supply tanks
- water supply proving tests.

Knowledge Evidence

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

- action to take when a breach of regulation, work health and safety (WHS) or other policy occurs when inspecting and testing fire hydrant systems
- basic principles of hydraulics, such as pressure scales (metric and imperial)
- flow switches and associated testing equipment
- general operation of hydrant system components:
 - backflow prevention devices
 - booster valve arrangements
 - control valves
 - interface connections to fire indicating panel and/or warning systems by pressure and flow switches
 - landing valves
 - pumpset and interface controls
 - towns' main reticulated water supplies
 - valve anti-tamper controls
 - water pressure and flow through a system to activate pumpsets
 - water tank water supply infill and outlet valve arrangement

- hydrant systems and components:
 - circulation and system pressure relief valves
 - controls on pumpset controller panel:
 - fuel gauges
 - indicators
 - main isolating switch
 - equipment that can be fitted to a landing valve:
 - delivery layflat hoses
 - types of couplings
 - flow switches and associated testing equipment
 - isolating valves associated with hydrant system
 - main water supply underground key-operated valve location
 - pressure gauges
 - pumpsets associated with hydrant system
 - pump starting switches
 - system block plan
 - system main alarm bell and/or alarm strobe
 - water-based fire-suppression system control and alarm valves and ancillary equipment for control and alarm operation indication/interface
 - water supply tanks, water level indicators and automatic inflow valves
- implications of not complying with regulatory requirements when inspecting and testing fire hydrant systems
- isolating valves associated with hydrant system
- key features of legislation, regulations, codes and Australian Standards relevant to the inspection and testing of fire hydrant systems:
 - environmental protection
 - hydrant system applications:
 - combined sprinkler and hydrant system
 - town main system hydrant points
 - maintenance schedules
 - National Construction Code (NCC) and deemed-to-satisfy requirements
 - records and documentation
- terminology used in relation to water-based fire-suppression systems:
 - aggressive environments
 - control assembly and pump area
 - critical defect
 - frequency and tolerances of maintenance intervals
 - installation and system pressure
 - pressure-reducing valve
 - preventive maintenance

- pump controller status
- sprinkler system interface controls
- stop cocks and main stop valves
- system pressure gauge schedule
- water supply proving tests
- water supply stop valves
- water supply tanks: atmospheric and pressure
- types and purpose of tools and equipment used when inspecting and testing fire hydrant systems
- workplace requirements for inspecting and testing fire hydrant systems:
 - maintenance of tools and equipment
 - WHS, including hazard and risk identification and control.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to documentation, tools, equipment, pictures or cut-away sections of control assemblies and valves to show operation, adequate water supply and draining or recycling arrangements to operate fire hydrant systems and operational fire hydrant systems required to achieve the performance evidence.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>