



Australian Government

Assessment Requirements for CPCPFS3048

Install fixed fire pumpsets

Release: 2

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Modification History

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| Release 2 | This version first released with CPC Construction, Plumbing and Services Training Package Release 6.5.

Amended Knowledge Evidence. |
| Release 1 | This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCPFS3048A Install fixed fire pumpsets.
Updated to meet the Standards for Training Packages 2012. |

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by installing fixed fire pumpsets to *AS 2419 Fire hydrant installations system design, installation and commissioning*, including:

- installing pump base and pump
- installing pipework and associated valves and components
- installing pressure relief valve and line
- pressure testing piping system and pumpset
- pressure maintenance pump (jockey pump)
- pump start arrangement (pressure switch loop).

Knowledge Evidence

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

- procedures and techniques for:
 - installation of fixed fire pumpset
 - pressure testing equipment
 - aligning pump and driver
- structural systems, building materials and services that support or surround fixed fire pumpsets
- characteristics, applications and limitations of approved materials and components of fixed fire pumpsets, above and below ground
- types and operation of pumps used in fire protection:
 - end suction
 - multistage multi outlet centrifugal

- split case
- turbine
- screw
- jacking pumps
- jockey pumps
- types, requirements and operation of pump control panels
- pump room requirements
 - ventilation requirements
- atmospheric pressure measurements and principles in relation to fixed fire pumpset performance
- performance measures for fixed fire pumpsets
- power sources for fixed fire pumpsets, including operation and interaction of power sources
- properties of water, including pressure and flow rates
- vibration dampening
- flexible tube vibration isolation
- diesel driver exhaust sizing requirements
- materials storage and environmentally responsible waste disposal relating to installing fixed fire pumpsets
- how to access relevant information, including relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements to install fixed fire pumpsets
- tools, materials and equipment used to install fixed fire pumpsets
- work health and safety (WHS) requirements to install fixed fire pumpsets.

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 volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>