



Australian Government

Assessment Requirements for CPCPFS4023 Commission fire system pumpsets

Release: 1

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Modification History

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

Supersedes and is equivalent to CPCPFS4023A Commission fire system 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:

- testing and commissioning one fire system pumpset, and
 - interpreting plans and specifications correctly to complete work to the specified standard within accepted timeframes
 - complying with appropriate legislation, organisational processes and regulatory requirements.

Knowledge Evidence

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

- job safety analysis (JSA) and safe work method statements (SWMS)
- National Fire Protection Association (NFPA) and Factory Mutual performance-based codes of practice
- performance measures for fire system pumpsets
- process to install, test and commission fire system pumpsets
- processes for accessing information and for calculating material requirements
- types of fire system pumpsets including:
 - centrifugal
 - close coupled, long coupled with mechanical joints or belt driven by an electric or petrol and diesel motor
 - multi-stage turbine
 - positive displacement
 - submersible and electric and compression ignition driven pumps
- pump controls including:
 - automatic, including float, level, flow or pressure switches
 - manual
- properties of water including:

- pressure
- flow rates
- atmospheric pressure
- test systems, equipment and procedures
- SI system of measurements
- work health and safety practices relating to testing and commissioning fire system pumpsets including:
 - handling of materials
 - hazard control
 - personal protective clothing and equipment
 - working with electricity
 - hazardous materials and substances
 - use of first aid equipment
 - workplace environment and safety
- environmental requirements including:
 - water quality management
 - clean-up protection
 - stormwater protection
 - waste management
- sustainability principles and concept including:
 - efficient energy use
 - disposing of waste material to ensure minimal environmental impact
 - selecting appropriate components to ensure minimal environmental impact
- quality assurance requirements including:
 - Environment Protection Authority (EPA)
 - internal company quality assurance policy and risk management strategy and workplace operations and procedures
 - International Standards Organisation (ISO)
- tools and equipment including:
 - hand and power tools
 - test equipment
- planning and site information including:
 - Australian building and plumbing codes specifically performance requirements for fire system pumpsets
 - standards applicable to installing and commissioning fire system pumpsets including AS2941 Fixed fire protection installations - Pumpset systems and AS2118 .1 Automatic fire sprinkler systems
 - charts, hand drawings, plans and sketches
 - instructions issued by authorised organisational or external personnel
 - manufacturer specifications and instructions
 - safety data sheets (SDS)

- organisation work specifications and requirements
- WHS and environmental requirements
- plumbing regulations
- signage
- work schedules, plans and specifications.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed 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>