

Unit of Competency CPCPFS4026

Commission firefighting appliances

Application

This unit specifies the skills and knowledge required to commission firefighting appliances.

It covers preparation for the work, identification and confirmation of system specifications and requirements, physical testing and commissioning of appliances, and work finalisation of work processes, including completing records and documentation.

The role may involve interaction with architects, builders, suppliers and relevant planning authorities and requires a sound understanding of applicable legislation including work health and safety (WHS).

The unit requirements may be carried out by experienced tradespeople such as hydraulic design consultants, fire services supervisors, plumbers or plumbing contractors who employ a team of plumbers.

Minimum site requirements for work application is a residential building of four storeys on a new work site and an existing structure.

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

Prerequisite Unit

Nil.

Elements and Performance Criteria

1. Prepare for work.	<ul style="list-style-type: none">1.1 Obtain current approved plans and specifications.1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and sustainability principles.1.3 Apply quality assurance requirements to comply with internal and external policies, procedures, standards and authorities.1.5 Consult with all associated persons to plan and sequence tasks.1.6 Select and check the serviceability of appropriate tools, equipment and personal protective equipment (PPE).1.7 Prepare work area to support effective commissioning process.
2. Identify system requirements.	<ul style="list-style-type: none">2.1 Identify and confirm system design requirements from job specifications according to standards.2.2 Identify and determine requirements of firefighting appliance commissioning using relevant Australian standards, statutory and regulatory authorities' requirements and job specifications.
3. Test and commission system.	<ul style="list-style-type: none">3.1 Check firefighting appliances to ensure type and installation conform to standards, job specifications, manufacturer recommendations and authorities' requirements.3.2 Test operation of appliances and adjust as required according to standards, job specifications, manufacturer's recommendations and authorities' requirements.3.3 Commission and maintain appliances to ensure correct operation according to

	standards, manufacturer and job specifications.
4. Clean up work area.	<p>4.1 Clear the work area of materials and dispose of, reuse or recycle materials according to legislation, regulations, environmental codes of practice and job specifications.</p> <p>4.2 Clean tools and equipment check for damage and malfunction and store according to manufacturer recommendations and workplace procedures.</p> <p>4.3 Access information to complete documentation according to workplace requirements and submit within specified timeframes.</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 CPCPFS4026A Commission firefighting appliances.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPFS4026 Commission firefighting appliances

Performance Evidence

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

- commissioning firefighting appliances, including portable fire appliances, wheeled fire extinguishers, delivery lay flat hose and fire hose reel systems for a residential building of a minimum four storeys on a new or existing structure.

Knowledge Evidence

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

- current Australian standards applicable to relevant appliances including:
 - o AS/NZS 1841.1 Portable fire extinguishers General requirements
 - o AS/NZS 1850 Portable fire extinguishers - Classification, rating and performance testing
 - o AS 1851-2012 Routine service of fire protection systems and equipment
 - o AS2441 Installation of fire hose reels
 - o AS2444 Portable fire extinguishers and blankets -selection and location
 - o AS/NZS3504 Fire blankets
 - o AS3565 Meters for water supply
 - o AS4077 Fire protection fire extinguishing media: halogenated hydrocarbons Specifications for halon 1211 and halon 1301
 - o AS4077 Fire protection fire extinguishing media: Code of practice for safe handling and transfer procedures of halon 1211 and halon 1301
 - o AS4078 Fire protection fire extinguishing media: carbon dioxide
 - o AS4265 Wheeled fire extinguishers
 - o AS/NZS4353 Portable fire extinguishers - aerosol type
- components and materials of firefighting equipment and appliances including:
 - o delivery lay flat fire hose
 - o fire blankets
 - o fire hose reel systems
 - o portable fire appliances
 - o wheeled fire extinguishers
- job safety analysis (JSA) and safe work method statements (SWMS)
- pressure requirements of hose reel systems
- process of installing, testing and commissioning firefighting equipment and appliances
- relevant statutory requirements and authorities related to commissioning firefighting equipment and appliances including:
 - o Commonwealth government

- o state governments
 - o territories
 - o local authorities
 - o codes of practice
 - o acts and regulations
 - o Environment Protection Authority (EPA)
- quality assurance requirements including:
 - o internal company quality assurance policy and risk management strategy
 - o International Standards Organisation (ISO)
 - o site safety plan
 - o workplace operations and procedures
- sources of information and processes for the calculation of requirements including:
 - o SI system of units
- safe work practices associated with commissioning firefighting appliances including:
 - o handling of materials
 - o hazard control
 - o personal protective clothing and equipment prescribed under legislation, regulations and workplace policies and practices
 - o working with electricity
 - o use of first aid equipment
- environmental requirements and sustainability principles including:
 - o clean-up protection
 - o stormwater protection
 - o waste management
 - o efficient energy use
 - o efficient use and recycling of material.

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

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