

Australian Government

CPCPFS4026A Commission firefighting appliances

Release 1



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Modification History

Changes to performance criteria, required skills and knowledge, range statement and critical aspects

Detailed licensing information included Not equivalent to CPCPFS4006A

Unit Descriptor

This unit of competency specifies the outcomes 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 processes, including records and documentation.

Application of the Unit

This unit of competency supports the needs of experienced tradespeople with responsibility for testing and commissioning firefighting appliances.

Site location for work application may be a new work site or an existing structure being renovated, extended, restored or maintained.

Licensing/Regulatory Information

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

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the	Performance criteria describe the performance needed to
essential outcomes of a	demonstrate achievement of the element. Where bold italicised
unit of competency.	text is used, further information is detailed in the required skills
	and knowledge section and the range statement. Assessment of
	performance is to be consistent with the evidence guide.

Elements and Performance Criteria

1	Prepare for work.	1.1	Plans and specifications are obtained.
		1.2	<i>Work health and safety</i> (WHS) requirements associated with workplace environment and commissioning firefighting appliances are adhered to throughout the work.
		1.3	<i>Quality assurance requirements</i> are identified and adhered to according to workplace requirements.
		1.4	Tasks are planned and sequenced in conjunction with others involved in or affected by the work.
		1.5	<i>Tools and equipment</i> for <i>commissioning firefighting appliances</i> , including personal protective equipment, are selected and checked for serviceability.
		1.6	Work area is prepared to support efficient commissioning process.
2	Identify system requirements.	2.1	Equipment requirements are identified and confirmed from job specifications and according to <i>relevant standards</i> .
		2.2	Requirements of firefighting appliance commissioning are identified according to standards, <i>statutory and regulatory authorities</i> ' requirements and job specifications.

- 3 Test and 3.1 Firefighting appliances are checked to ensure type and installation conform to standards, job specifications, manufacturer recommendations and authorities' requirements.
 - 3.2 Operation of appliances is tested according to standards, job specifications, manufacturer recommendations and authorities' requirements and is adjusted as required.
 - 3.3 Appliances are commissioned and maintained to ensure correct operation according to standards, and manufacturer and job specifications.
 - 3.4 *Sustainability principles and concepts* are observed when preparing for and undertaking work process.
- 4 Clean up work 4.1 Work area is cleared and materials disposed of, reused or recycled according to legislation, regulations, codes of practice and job specification.
 - 4.2 Tools and equipment are cleaned, checked, maintained and stored according to manufacturer recommendations and workplace procedures.
 - 4.3 Information is accessed and documentation completed according to workplace requirements.

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- communication skills to:
 - access information
 - determine requirements
 - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
 - follow and give instructions
 - use language and concepts appropriate to cultural differences
 - use and interpret non-verbal communication, such as hand signals
- initiative and enterprise skills to identify and report to appropriate personnel any faults in tools, equipment or materials
- literacy skills to:
 - complete workplace documentation
 - read and interpret:
 - documentation from a variety of sources
 - plans and specifications
- numeracy skills to apply measurements and calculations
- planning and organising skills to:
 - plan and sequence tasks with others
 - plan and set out work
- teamwork skills to work with others to action tasks and relate to people from a range of cultural and ethnic backgrounds and with varying physical and mental abilities
- technology skills to:
 - · access and understand site-specific instructions in a variety of media
 - use mobile communication technology

Required knowledge

- Australian standards applicable to relevant appliances
- components and materials of firefighting equipment and appliances
- 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 related to commissioning firefighting equipment and appliances

- SI system of units
- sources of information and processes for the calculation of requirements
- workplace and equipment safety requirements

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	This unit of competency could be assessed in the workplace or a close simulation of the workplace environment providing that simulated or project-based assessment techniques fully replicate plumbing and services workplace conditions, materials, activities, responsibilities and procedures. It may be assessed on its own or as part of an integrated assessment activity involving preparing, planning and conducting commissioning procedures for firefighting appliances for a residential building of four storeys and completing all associated documentation.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	 A person who demonstrates competency in this unit must be able to provide evidence of: locating, interpreting and applying relevant information, standards and specifications to the commissioning of firefighting appliances applying safety requirements throughout the work sequence, including electrical safety requirements and the use of personal protective clothing and equipment commissioning firefighting appliances, including portable fire appliances, wheeled fire extinguishers, delivery lay flat hose and fire hose reel systems, ensuring: application of sustainability principles and concepts correctly identifying location, design specification and details of system correctly selecting and using appropriate processes, tools and equipment completing all work to specification complying with regulations, standards and

complying with regulations, standards and organisational quality procedures and processes.

Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and

environmental constraints.

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the minimum task requirements
- relevant specifications and work instructions
- tools and equipment appropriate to applying safe work practices
- support materials appropriate to activity
- workplace instructions relating to safe work practices and addressing hazards and emergencies
- material safety data sheets
- research resources, including industry-related systems information.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm that competency is verified and able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

• competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace

Method of assessment

- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice, with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

Assessment processes and techniques should as far as is practical take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Work health and safety is to be according to commonwealth, state and territory legislation and regulations and may include:

- handling of materials, including hazardous materials and substances
- hazard control
- personal protective equipment, including that prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including recognising and preventing hazards associated with:
 - electricity
 - other machines
 - surrounding structure and facilities
 - trip hazards
 - underground services
 - use of tools and equipment

	 work site visitors and the public working at heights working in confined spaces working in proximity to others use of firefighting equipment use of first aid equipment workplace environment and safety.
<i>Quality assurance requirements</i> may include:	 Environment Protection Authority internal company quality assurance policy and risk management strategy International Standards Organisation site safety plan workplace operations and procedures.
Tools and equipment may include:	 hand and power tools test equipment.
<i>Commissioning firefighting</i> <i>appliances</i> covers testing and commissioning firefighting appliances, including:	 delivery lay flat fire hose fire blankets fire hose reel systems portable fire appliances wheeled fire extinguishers.
<i>Statutory and regulatory authorities</i> include:	• commonwealth, state or territory, and local authorities administering applicable Acts, regulations and codes of practice.
<i>Relevant standards</i> may include:	 AS/NZS1841 Portable fire extinguishers - general requirements AS/NZS1850 Portable fire extinguishers - classification, rating and performance testing AS1851 Maintenance of fire protection systems and equipment AS2441 Installation of fire hose reels AS2444 Portable fire extinguishers and blankets -selection and location AS/NZS3504 Fire blankets AS3565 Meters for water supply

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- AS4077 Fire protection fire extinguishing media: halogenated hydrocarbons
- AS4078 Fire protection fire extinguishing media: carbon dioxide
- AS4265 Wheeled fire extinguishers
- AS/NZS4353 Portable fire extinguishers aerosol type.

Sustainability principles and concepts:

- cover the current and future social, economic and environmental use of resources
- may include:
 - efficient energy usage
 - disposing of waste material to ensure minimal environmental impact
 - efficient use and recycling of material.

Unit Sector(s)

Functional area

Unit sector

Plumbing and services

Custom Content Section

Not applicable.